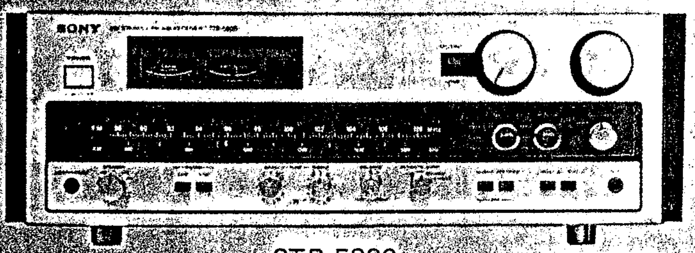
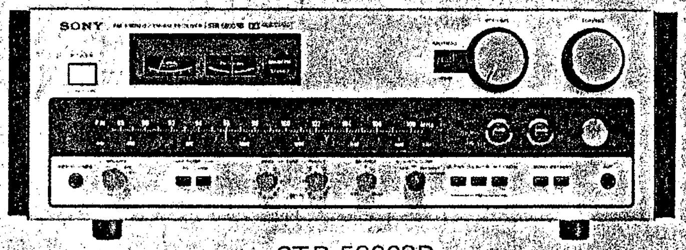
STR-5800/5800SD

STR-5800SD
USA Model
Canada Model
STR-5800
AEP Model


STR-5800


STR-5800SD
DOLBY FM

Original

FM STEREO/FM-AM RECEIVER

SPECIFICATIONS

GENERAL

Power Requirements:	120 V ac, 60 Hz (USA and Canada Model) 110, 127, 220 or 240 V ac adjustable, 50/60 Hz (AEP Model)
Power Consumption:	190 W (USA Model) 380 VA (Canada Model) 570 W (AEP Model)
AC Outlets:	3 unswitched, total 200 W
Dimensions:	Approx. 490 (w) x 170 (h) x 415 (d) mm 19¼ (w) x 6⁹⁄₁₆ (h) x 16¼ (d) inches Including projecting parts and controls
Weight:	Approx. 15.4 kg, 34 lb (net) Approx. 17.7 kg, 39 lb (with shipping carton)

FM SECTION

Tuning Range:	87.5 MHz – 108 MHz
Intermediate Frequency:	10.7 MHz
Sensitivity at 50 dB Quieting:	3.5 μV (MONO) 45 μV (STEREO)
Sensitivity at 46 dB Quieting: (40 kHz deviation)	50 μV (STEREO) (AEP Model)
Usable Sensitivity:	IHF 1.7 μV (MONO) 1.5 μV, S/N = 26 dB (40 kHz deviation (AEP Model)
S/N Ratio:	73 dB (MONO) 68 dB (STEREO)
Harmonic Distortion:	at 100 Hz 0.2 % (MONO) 0.3 % (STEREO) at 1 kHz 0.2 % (MONO) 0.3 % (STEREO) at 10 kHz 0.2 % (MONO) 0.6 % (STEREO)
IM Distortion:	0.2 % (MONO) 0.3 % (STEREO)
Separation:	35 dB at 100 Hz 40 dB at 1 kHz 35 dB at 10 kHz
Frequency Response:	30 Hz – 15 kHz $^{+0.2}_{-1.5}$ dB (USA and Canada Model) 40 Hz – 12.5 kHz $^{+0.2}_{-1.0}$ dB (AEP Model)
Capture Ratio:	1.0 dB
AM Suppression Ratio:	54 dB
Image Response Ratio:	75 dB

– Continued on next page –

* STR-5800SD is equipped with DOLBY FM circuit. **'Dolby'** and the double-D symbol are the trade marks of Dolby Laboratory Inc. Noise reduction system manufactured under license from Dolby Laboratories Inc.

Original

SONY®
SERVICE MANUAL

IF Response Ratio: 100 dB

Spurious Response Ratio: 100 dB

RF Intermodulation: 65 dB

Sub-carrier Product Ratio: 60 dB

Muting Threshold: Approx. 5 μV

FM DISCRI Output Level: 250 mV, 2,500 Ω, at 1 kHz, 100 % modulation

AM SECTION

Tuning Range: 530 kHz – 1,605 kHz

Intermediate Frequency: 455 kHz (USA and Canada Model)
468 kHz (AEP Model)

Usable Sensitivity: 250 μV/m, built-in ferrite-rod antenna
100 μV, external antenna
at 1,000 kHz

S/N Ratio: 50 dB at 50 mV/m

Harmonic Distortion: 0.5 % at 50 mV/m, 400 Hz

Selectivity: 35 dB

Image Response Ratio: 40 dB at 1,000 kHz

IF Response Ratio: 35 dB at 1,000 kHz

AUDIO AMPLIFIER SECTION

Continuous RMS Power Output: (rated output) (less than 0.2 % THD)
Both channels driven simultaneously
At 20 – 20,000 Hz
55 + 55 W (8 Ω)
At 1 kHz
60 + 60 W (8 Ω)
75 + 75 W (4 Ω) } (AEP Model)
According to DIN 45500
60 + 60 W (8 Ω)
70 + 70 W (4 Ω) } (AEP Model)

Dynamic Power Output: (IHF constant power supply method)
200 W (8 Ω)
280 W (4 Ω) } (AEP Model)

Power Bandwidth: 10 – 35,000 Hz, IHF (AEP Model)

Damping Factor: 40 at 1 kHz (8 Ω)

Harmonic Distortion: Less than 0.2 % at rated output
Less than 0.1 % at 1 W output } (AEP Model)

IM Distortion: (60 Hz : 7 kHz = 4 : 1)
Less than 0.2 % at rated output
Less than 0.1 % at 1 W output

Residual Noise: Less than 0.1 μW

Frequency Response:

PHONO	RIAA equalization curve ±0.5 dB
AUX TAPE 1, 2 REC/PB (AEP Model) EXT ADPT	10 – 30,000 Hz $^{+0}_{-2}$ dB

Input Sensitivity, Impedance and S/N Ratio:

	Sensitivity	Impedance	S/N	Weighting network
PHONO	2.5 mV	50 kΩ	72 dB	A
AUX TAPE 1, 2 REC/PB (AEP Model) EXT ADPT	250 mV	100 kΩ	90 dB	A

Note: Measured with rated output into 8 Ω loads (both channels driven simultaneously) at 1 kHz.

Output Level and Impedance:

	Output level	Impedance	Input level
REC OUT 1, 2	250 mV	4.7 kΩ	PHONO 2.5 mV
REC/PB (AEP Model)	40 mV	82 kΩ	AUX TAPE 1, 2 250 mV REC/PB (input) EXT ADPT
EXT ADPT	250 mV	4.7 kΩ	

HEADPHONES: Accepts 8 – 10,000 Ω headphones. headphones.

SPEAKER: 4 – 16 Ω speakers are suitable.

Tone Controls:

BASS	±10 dB at 100 Hz
TREBLE	±10 dB at 10 kHz

Filters:

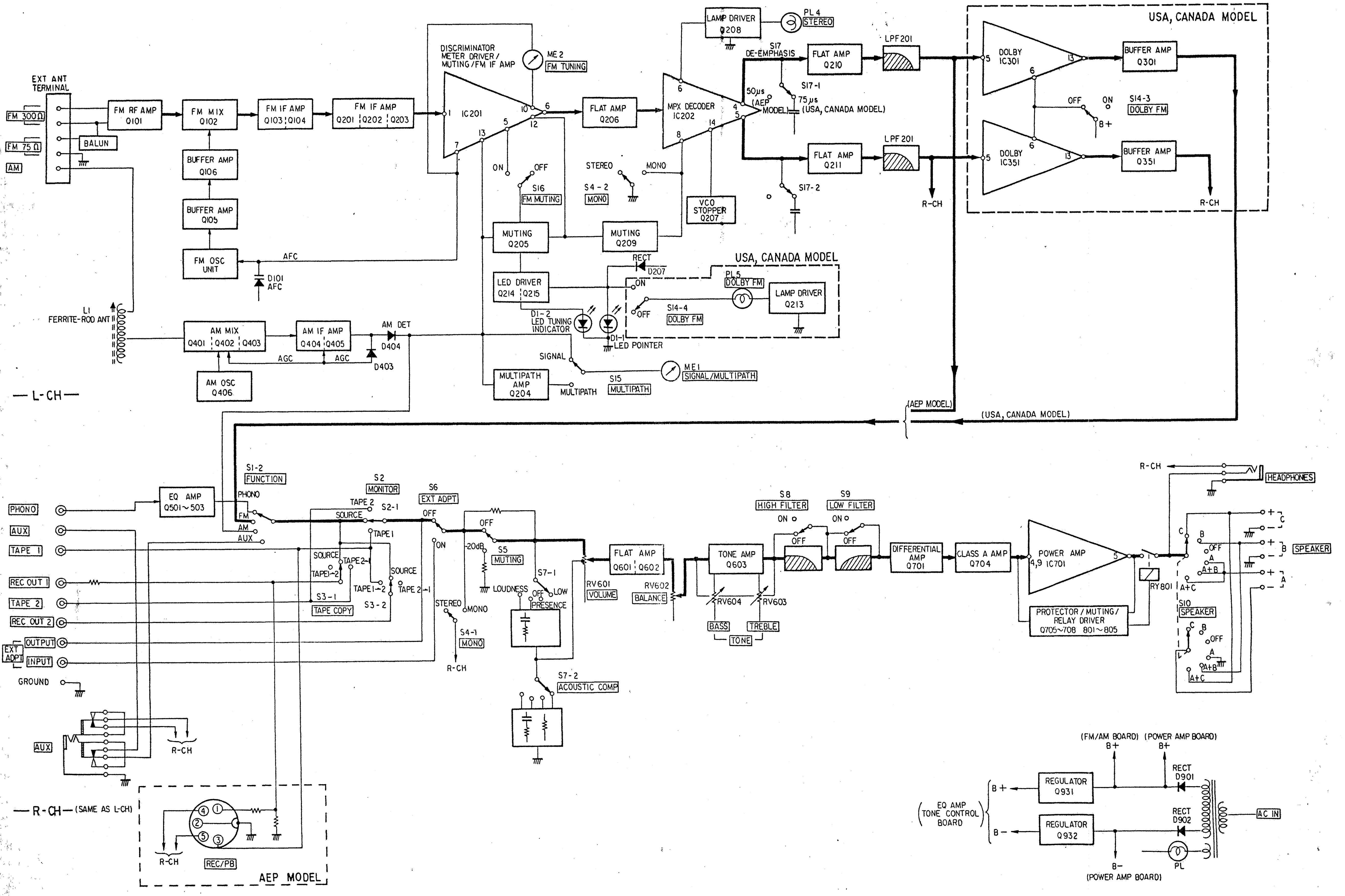
HIGH	6 dB/oct. above 6 kHz
LOW	6 dB/oct. below 35 Hz

Acoustic Compensator: (att. 30 dB)

LOW	+9 dB at 50 Hz
PRESENCE	+3 dB at 1 kHz
LOUDNESS	+10 dB at 50 Hz +3 dB at 10 kHz

SECTION 1

BLOCK DIAGRAM


EXT ANT TERMINAL
FM 300Ω
FM 75Ω
AM
BALUN
FM RF AMP Q101
FM MIX Q102
BUFFER AMP Q106
BUFFER AMP Q105
FM OSC UNIT
D101 AFC
AFC
FM IF AMP Q103 Q104
FM IF AMP Q201 Q202 Q203
DISCRIMINATOR METER DRIVER / MUTING / FM IF AMP
IC201
ME2 FM TUNING
ON OFF
S16 FM MUTING
FLAT AMP Q206
MPX DECODER IC202
STEREO MONO
S4-2 MONO
VCO STOPPER Q207
LAMP DRIVER Q208
PL4 STEREO
S17 DE-EMPHASIS
50μs (AEP MODEL)
S17-1
75μs (USA, CANADA MODEL)
S17-2
FLAT AMP Q210
FLAT AMP Q211
LPF201
LPF201
R-CH
USA, CANADA MODEL
DOLBY IC301
DOLBY IC351
OFF ON
S14-3 DOLBY FM
B+
BUFFER AMP Q301
BUFFER AMP Q351
R-CH
MUTING Q205
MUTING Q209
LED DRIVER Q214 Q215
RECT D207
USA, CANADA MODEL
PL5 DOLBY FM
LAMP DRIVER Q213
ON OFF
S14-4 DOLBY FM
D1-2 LED TUNING INDICATOR
D1-1 LED POINTER
SIGNAL
MULTIPATH AMP Q204
MULTIPATH
S15 MULTIPATH
ME1 SIGNAL/MULTIPATH
L1 FERRITE-ROD ANT
AM MIX Q401 Q402 Q403
AM IF AMP Q404 Q405
AM DET D404
D403
AGC AGC
AM OSC Q406
— L-CH —
(AEP MODEL)
(USA, CANADA MODEL)
S1-2 FUNCTION
PHONO
FM
AM
AUX
EQ AMP Q501~503
PHONO
AUX
TAPE 1
REC OUT 1
TAPE 2
REC OUT 2
EXT ADPT OUTPUT
INPUT
GROUND
S2 MONITOR
TAPE 2
S2-1
SOURCE
TAPE 1
SOURCE
TAPE 2-2
TAPE 1-2
S3-1 TAPE COPY
TAPE 1-2
S3-2
SOURCE
TAPE 2-1
S6 EXT ADPT
OFF
ON
STEREO MONO
S4-1 MONO
R-CH
OFF
-20dB
S5 MUTING
LOUDNESS
S7-1
OFF LOW
PRESENCE
S7-2 ACOUSTIC COMP
RV601 VOLUME
FLAT AMP Q601 Q602
RV602 BALANCE
TONE AMP Q603
RV604 RV603
BASS TREBLE
TONE
S8 HIGH FILTER
ON OFF
S9 LOW FILTER
ON OFF
DIFFERENTIAL AMP Q701
CLASS A AMP Q704
POWER AMP IC701
PROTECTOR / MUTING / RELAY DRIVER Q705~708 801~805
RY801
R-CH
HEADPHONES
C B OFF A A+B A+C
SPEAKER
S10 SPEAKER
AUX
R-CH
— R-CH — (SAME AS L-CH)
R-CH
REC/PB
AEP MODEL
(FM/AM BOARD) B+
(POWER AMP BOARD) B+
REGULATOR Q931
REGULATOR Q932
EQ AMP TONE CONTROL BOARD
B+
B−
RECT D901
RECT D902
AC IN
PL
B− (POWER AMP BOARD)

SECTION 2

DISASSEMBLY AND REPLACEMENT

2-1. SIDE BOARDS REMOVAL

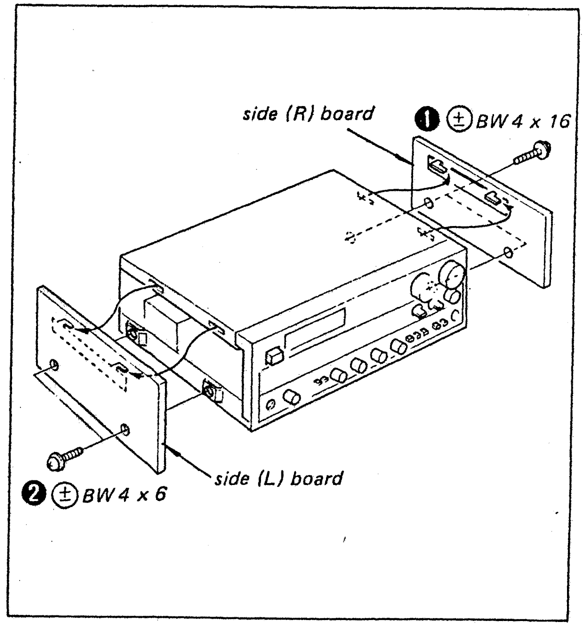

side (R) board
① ⊕BW 4 x 16
② ⊕BW 4 x 6
side (L) board

Fig. 2-1.

2-2. TOP COVER REMOVAL

Remove the side boards (2-1) first.

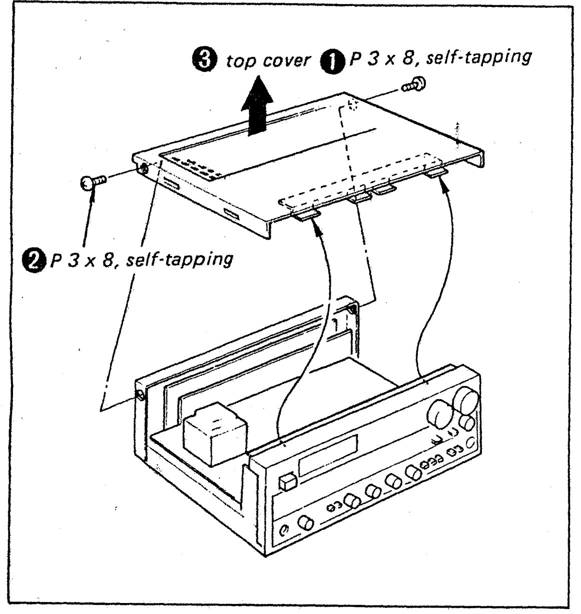

③ top cover
① P 3 x 8, self-tapping
② P 3 x 8, self-tapping

Fig. 2-2.

2-3. BOTTOM PLATE REMOVAL

It is possible to check the circuit boards after removing the bottom plate.

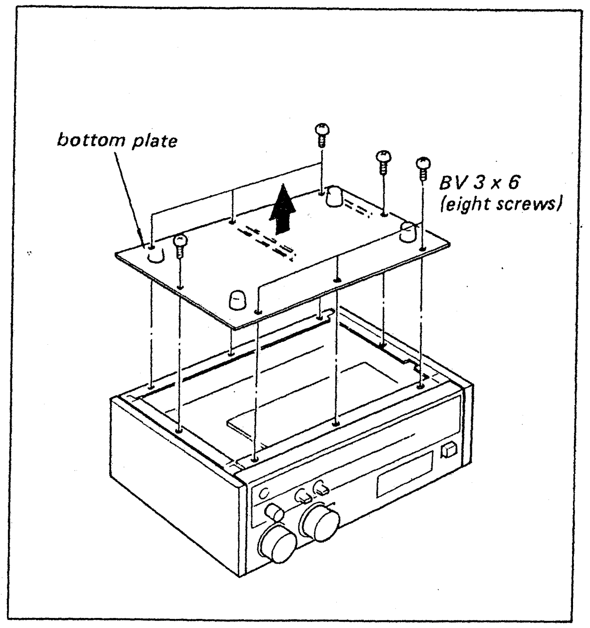

bottom plate
BV 3 x 6
(eight screws)

Fig. 2-3.

2-4. FRONT PANEL REMOVAL

Remove the side boards (2-1) and top cover (2-2) first.

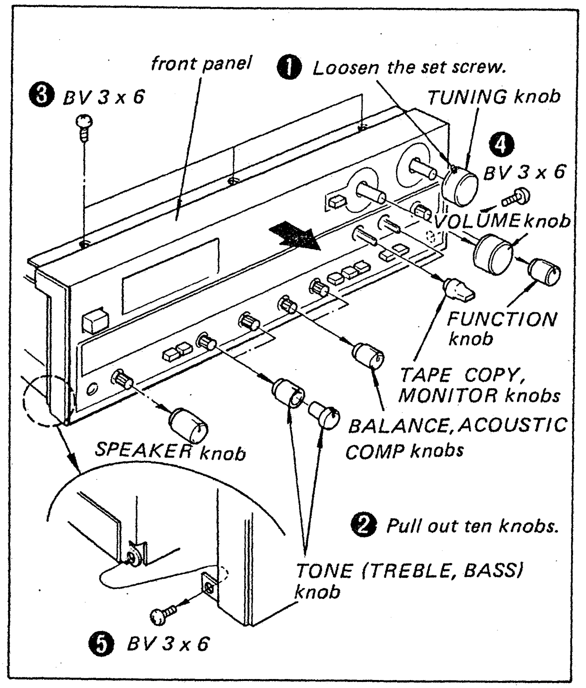
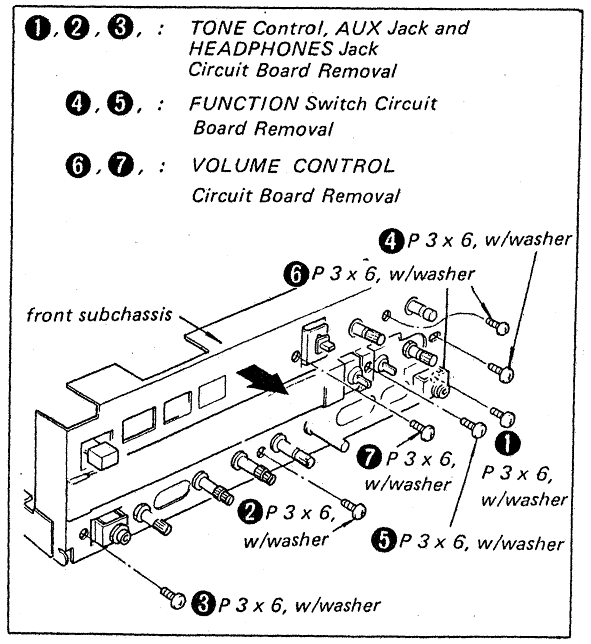

front panel
① Loosen the set screw.
③ BV 3 x 6
TUNING knob
④
BV 3 x 6
VOLUME knob
FUNCTION knob
TAPE COPY, MONITOR knobs
BALANCE, ACOUSTIC COMP knobs
SPEAKER knob
② Pull out ten knobs.
TONE (TREBLE, BASS) knob
⑤ BV 3 x 6

Fig. 2-4.

2-5. CIRCUIT BOARDS REMOVAL

TONE Control, AUX Jack and HEADPHONES Jack Circuit Boards Removal.

1. Remove the bottom plate (2-3) and front panel (2-4) first.
2. Remove three screws (① – ③) as shown in Fig. 2-5.
   After removing the circuit boards from the front subchassis, replace the defective switch or jack.



①, ②, ③, : *TONE Control, AUX Jack and HEADPHONES Jack Circuit Board Removal*

④, ⑤, : *FUNCTION Switch Circuit Board Removal*

⑥, ⑦, : *VOLUME CONTROL Circuit Board Removal*

④ P 3 x 6, w/washer
⑥ P 3 x 6, w/washer
front subchassis
⑦ P 3 x 6, w/washer
① P 3 x 6, w/washer
② P 3 x 6, w/washer
⑤ P 3 x 6, w/washer
③ P 3 x 6, w/washer

Fig. 2-5.

FUNCTION Switch Circuit Board Removal

1. Remove the front panel (2-4) first.
2. Remove two screws (④,⑤) as shown in Fig. 2-5.
   After removing the circuit board from the front subchassis, replace the defective switch.

VOLUME CONTROL Circuit Board Removal

1. Remove the front panel (2-4) first.
2. Remove two screws (⑥,⑦) as shown in Fig. 2-5.
   After removing the circuit board from the front subchassis, replace the defective control.

POWER AMP and EQ AMP Circuit Board Removal

1. Remove the bottom plate (2 - 3) first.
2. See Fig. 2-6.

①: POWER AMP Circuit Board Removal

②: EQ AMP Circuit Board Removal

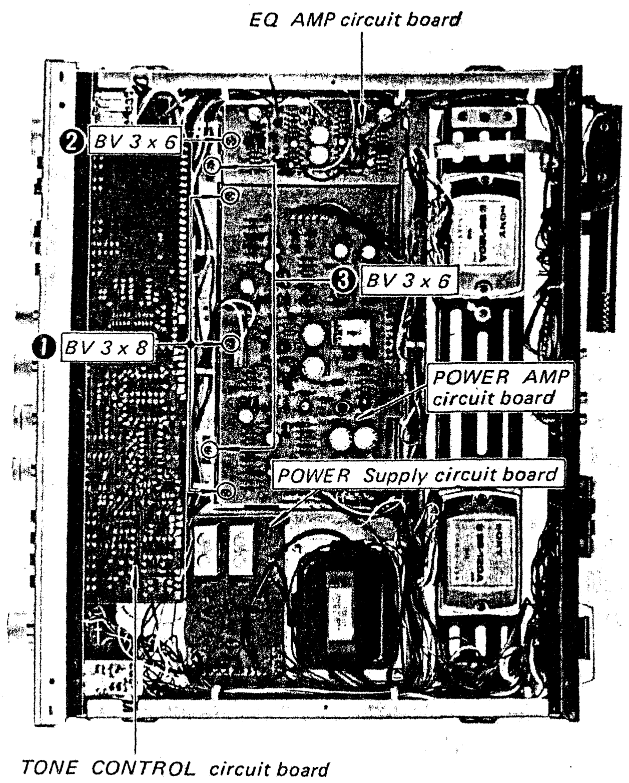

EQ AMP circuit board
② BV 3 x 6
③ BV 3 x 6
① BV 3 x 8
POWER AMP circuit board
POWER Supply circuit board
TONE CONTROL circuit board

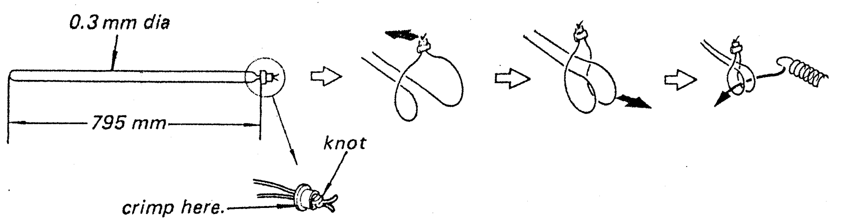
Fig. 2-6.

Replacement of the Components on the Front-End Circuit Board.

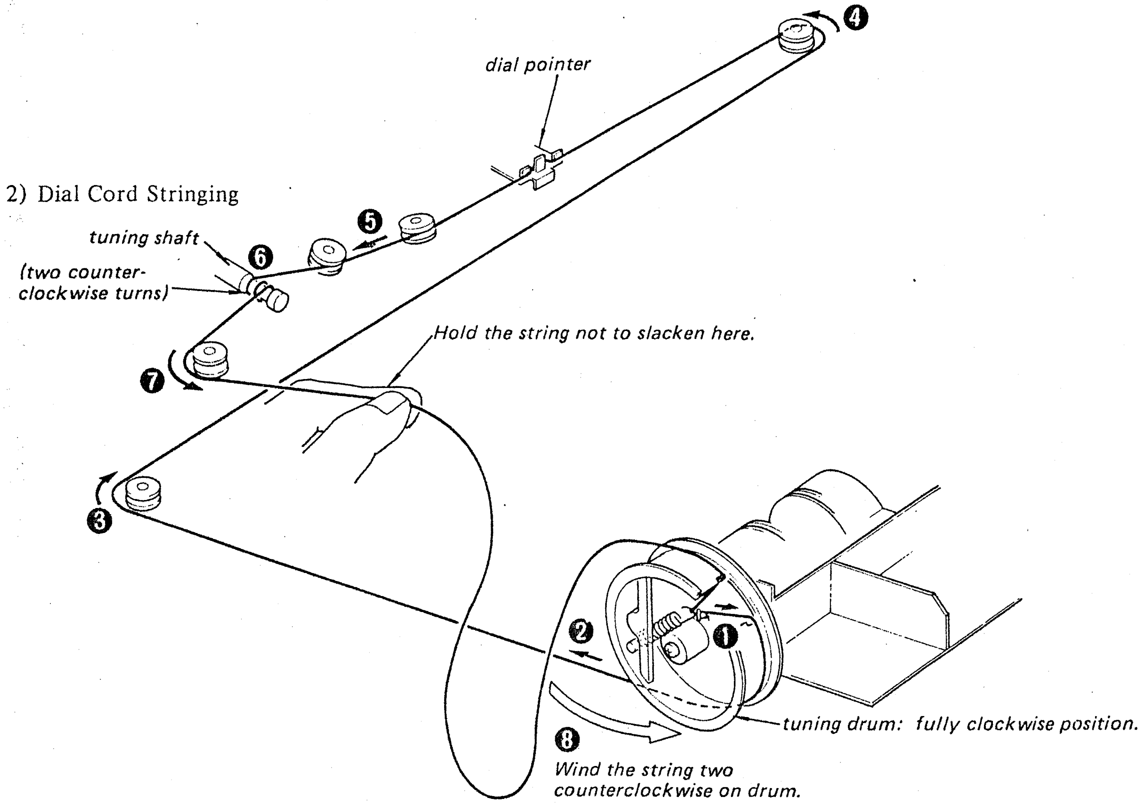
1. Remove the bottom plate (2 - 3) first.
2. Remove two BV 3 x 6 screws ③ securing the power amp and EQ amp circuit boards to the shield plate as shown in Fig. 2-6.
3. Remove the shield plate from the chassis.
4. It is possible to unsolder the components on the front-end circuit board.

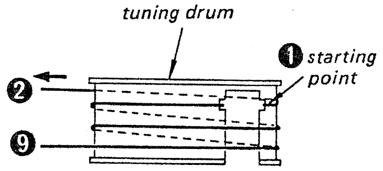
2-6. DIAL CORD STRINGING

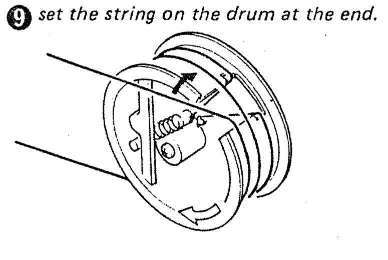
1) Dial Cord Length


0.3 mm dia
795 mm
knot
crimp here.

2) Dial Cord Stringing


❹
dial pointer
❺
tuning shaft
❻
(two counter-clockwise turns)
Hold the string not to slacken here.
❼
❸
❷
❶
tuning drum: fully clockwise position.
❽
Wind the string two counterclockwise on drum.


tuning drum
❶ starting point
❷
❾


❾ set the string on the drum at the end.

SECTION 3

ALIGNMENTS AND ADJUSTMENTS

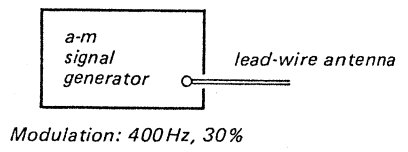
FM FREQUENCY COVERAGE AND TRACKING ALIGNMENT

Never attempt alignment of the fm front-end section for the fm frequency coverage and tracking alignment. If the fm frequency coverage alignment is required, replace the fm front-end board. In the case of tracking alignment, ask your nearest SONY Service Station to send your set to the Factory Service Center.

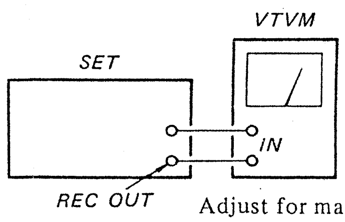
AM FREQUENCY COVERAGE AND AM TRACKING ALIGNMENT

Test setup:

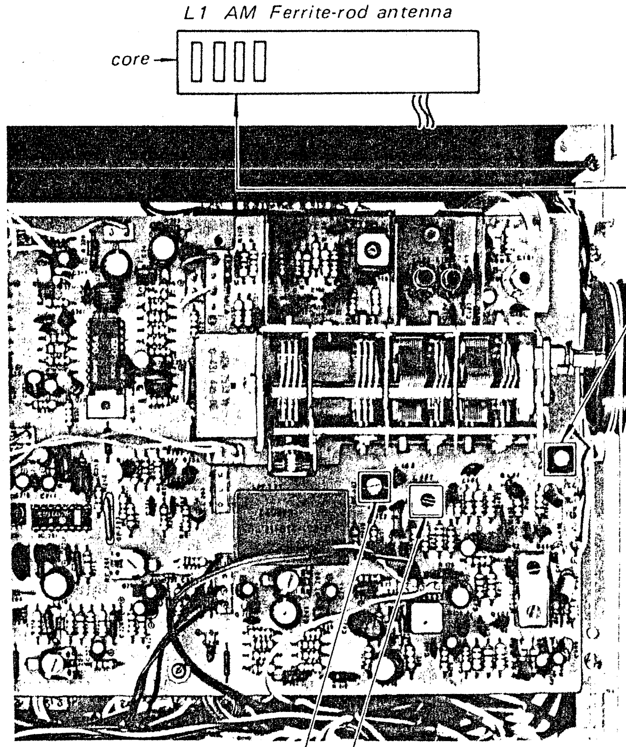
FUNCTION selector: AM


a-m signal generator
lead-wire antenna

Modulation: 400Hz, 30%


VTVM
SET
IN
REC OUT

Adjust for maximum reading.


L1 AM Ferrite-rod antenna
core

Step	AM TRACKING ALIGNMENT
1	L1 (600 kHz)
2	CT401 (1,400 kHz)

Note: Repeat step 1 and 2 several times, and finish the alignment at step 2.

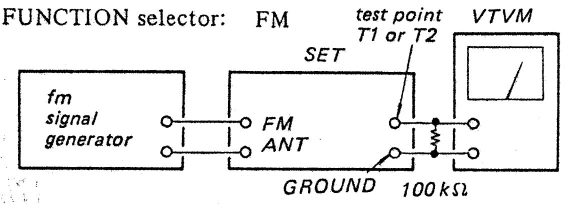
Step	AM FREQUENCY COVERAGE ALIGNMENT	DIAL INDICATION
1	L402 (520 kHz)	Lower End
2	CT402 (1,680 kHz)	Upper End

Note: Repeat step 1 and 2 several times, and finish the alignment at step 2.

FM OUTPUT LEVEL ADJUSTMENT

Setup:

FUNCTION selector: FM


test point
T1 or T2
VTVM
SET
fm
signal
generator
FM
ANT
GROUND
100 kΩ

FM Signal Generator Setting:

Carrier frequency:	98 MHz
Modulation:	400 Hz, 75 kHz deviation (100 %)
Output level:	1 mV (60 dB)

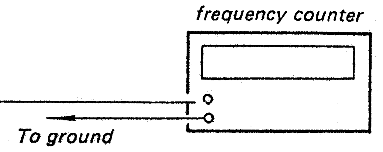
Procedure:

Adjust RT201 for 870 mV on the VTVM.

MPX ADJUSTMENT

Setup:

FUNCTION selector: FM


frequency counter
To ground

FM Signal Generator Setting:

Carrier frequency:	98 MHz
Modulation:	no modulation
Output level:	3.2 mV (70 dB)

Procedure:

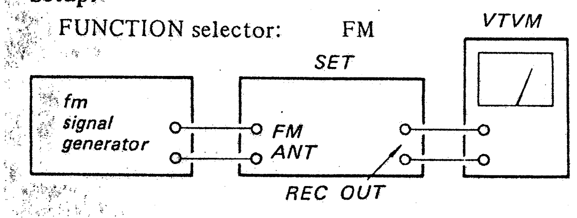
Adjust RT205 for 19 kHz ± 100 Hz on the counter with no input signal.

Note: Perform this adjustment after the power switch turned ON and one minute passed.

SIGNAL METER ADJUSTMENT

Setup:

FUNCTION selector: FM

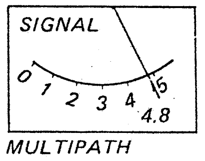

VTVM
SET
fm
signal
generator
FM
ANT
REC OUT

FM Signal Generator Setting:

Carrier frequency:	98 MHz
Modulation:	no modulation
Output level:	3.2 mV (70 dB)

Procedure:

Tune the set to 98 MHz and adjust RT204 for specified pointer position (See figure below.) on the SIGNAL meter.

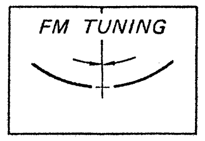

SIGNAL
0
1
2
3
4
5
4.8
MULTIPATH

DISCRIMINATOR ALIGNMENT

Procedure:

FUNCTION selector: FM

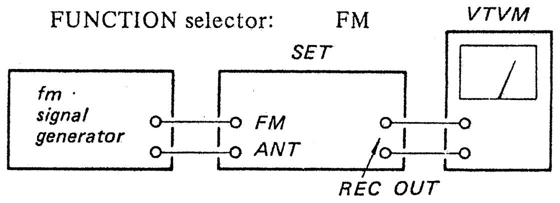
1. Detune the set.
2. Adjust the secondary side core of IFT201 for zero center on the TUNING meter.



FM IF ALIGNMENT

Setup:

FUNCTION selector: FM

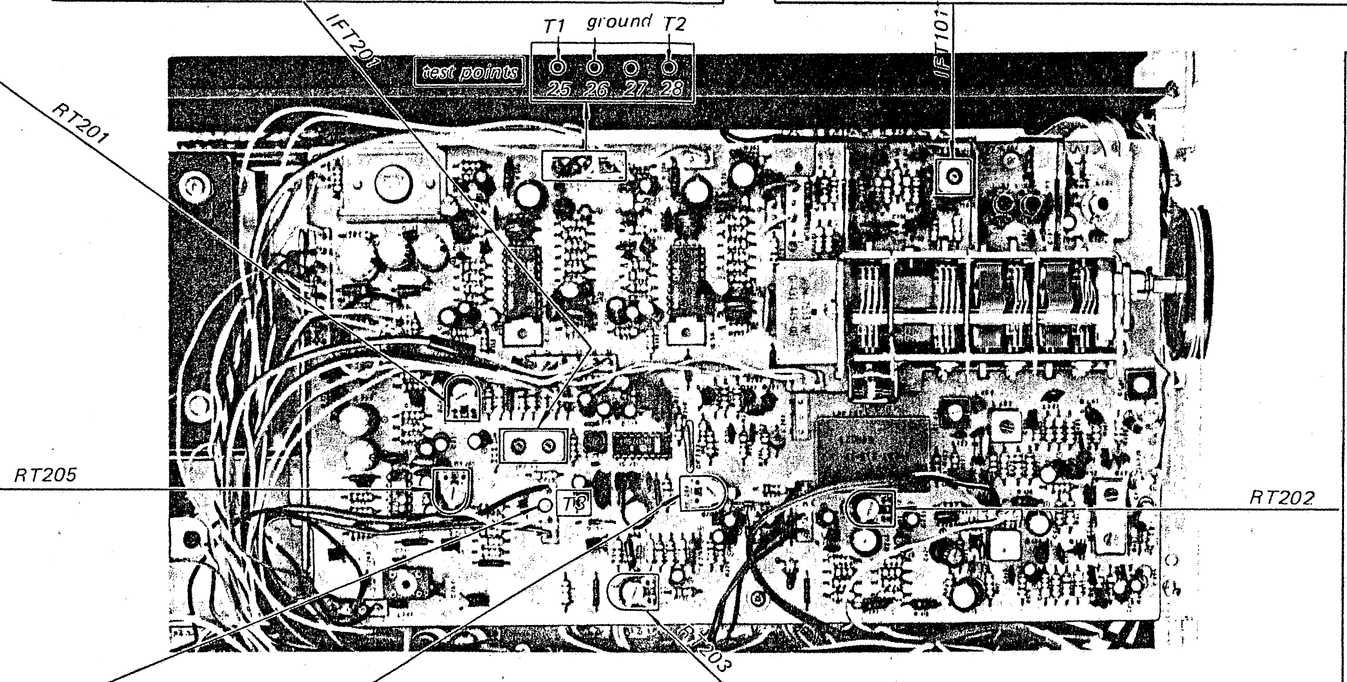

VTVM
SET
fm
signal
generator
FM
ANT
REC OUT

FM Signal Generator Setting:

Carrier frequency:	98 MHz
Modulation:	400 Hz, 75 kHz deviation (100 %)
Output level:	1 mV (60 dB)

Procedure:

Tune the set to 98 MHz and adjust IFT101 for maximum reading on the VTVM.

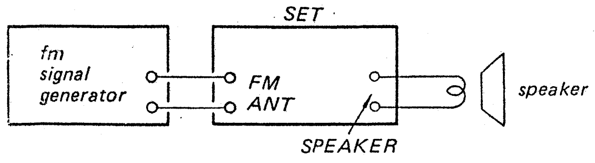

IFT201
T1
ground
T2
test points
25
26
27
28
IFT101
RT201
RT205
RT202
RT203

RT204

MUTING LEVEL ADJUSTMENT

Setup:

FUNCTION selector: FM
MUTING switch: ON


SET
fm
signal
generator
FM
ANT
speaker
SPEAKER

FM Signal Generator Setting:

Carrier frequency:	98 MHz
Modulation:	400 Hz, 75 kHz deviation (100 %)

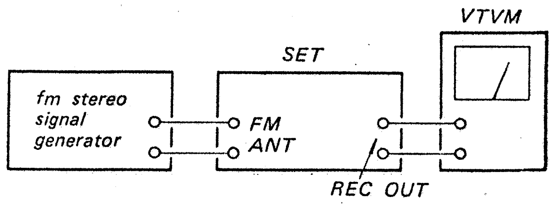
Procedure:

1. Set the output level of the fm signal generator to 5.6 μV (15 dB).
2. Adjust R203 for the point that the sound begins to disappear.

FM STEREO SEPARATION ADJUSTMENT

Setup:

FUNCTION selector: FM


VTVM
SET
fm stereo
signal
generator
FM
ANT
REC OUT

FM Stereo Signal Generator Setting:

Carrier frequency:	98 MHz
Mode:	Stereo
Audio (400 Hz) Mode:	67.5 kHz (90 %)
Pilot (19 kHz) Mode:	7.5 kHz (10 %)

Procedure:

1. Tune the set to 98 MHz.
2. Set the signal generator channel selector to L-CH.
3. Connect the VTVM to the REC OUT "L-CH" of the set and read the output level on the VTVM.
4. Turn the stereo signal generator channel selector from L-CH to R-CH and adjust RT202 for minimum output on the VTVM.

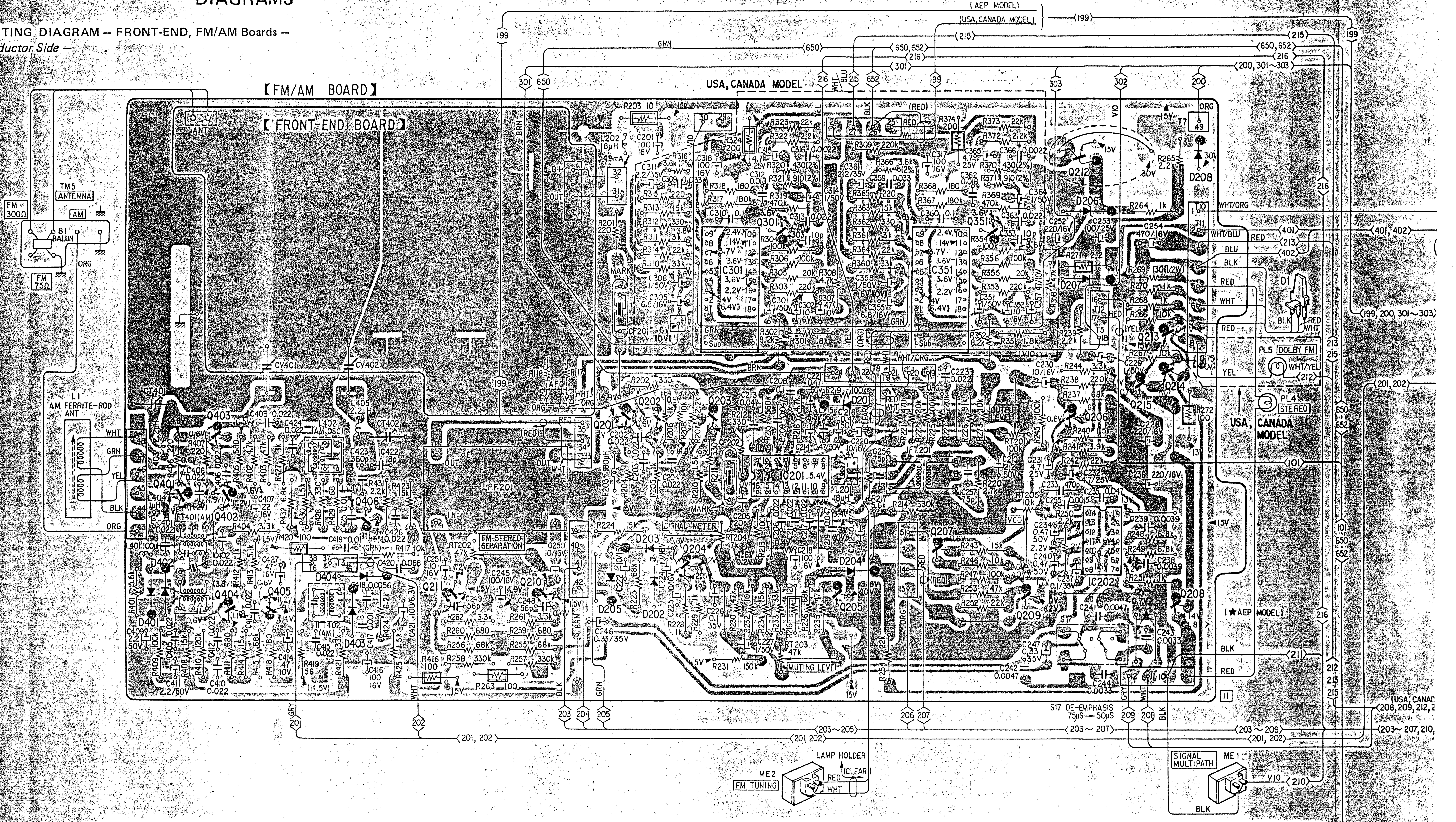
   Note: The output level difference between step 3 and step 4 represents the separation.
5. Connect the VTVM to the REC OUT "R-CH" of the set and read the output level on the VTVM.
6. Turn the stereo signal generator channel selector from R-CH to L-CH and adjust RT202 for minimum output on the VTVM.
7. If the separation obtained in step 4 and step 6 differs more than 3 dB in value, readjust RT202 to be less than 3 dB.

SECTION 4

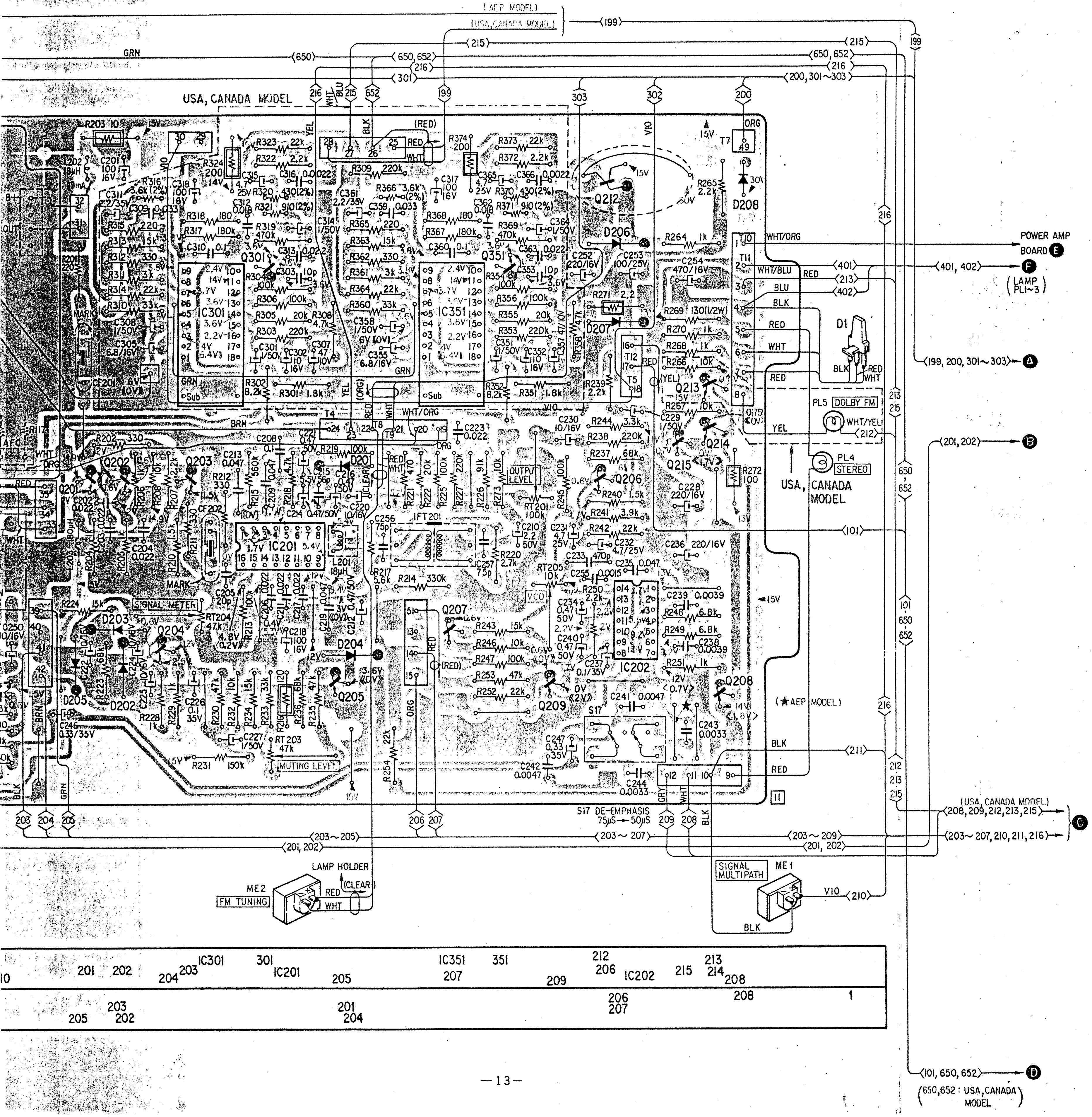
DIAGRAMS

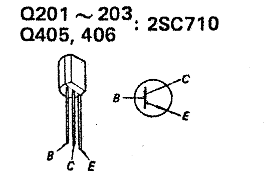
4-1. MOUNTING DIAGRAM – FRONT-END, FM/AM Boards –

– Conductor Side –

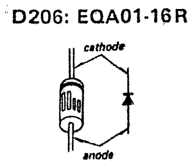

【FM/AM BOARD】
【FRONT-END BOARD】
USA, CANADA MODEL
(AEP MODEL)
(USA, CANADA MODEL)
FM 300Ω
FM 75Ω
TM5 ANTENNA
AM
B1 BALUN
ANT
L1 AM FERRITE-ROD ANT
LPF201
FM STEREO SEPARATION
SIGNAL METER
MUTING LEVEL
OUTPUT LEVEL
IC201
IC202
IC301
IC351
(★AEP MODEL)
PL5 DOLBY FM
PL4 STEREO
D1
S17 DE-EMPHASIS 75μS — 50μS
LAMP HOLDER
ME2 FM TUNING
ME1 SIGNAL MULTIPATH
(650, 652 : USA, CANADA MODEL)

Q & IC	401 403 402 404 405 406 211 210 201 202 204 203 IC301 301 IC201 205 IC351 207 351 209 212 206 IC202 215 213 214 208
D	401 402 403 404 205 203 202 201 204 206 207 208 1

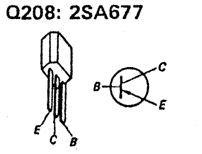

USA, CANADA MODEL
(AEP MODEL)
(USA, CANADA MODEL)
GRN
IC301
IC351
IC201
IC202
Q212
Q213
Q214
Q215
Q206
Q207
Q208
Q209
Q201
Q202
Q203
Q204
Q205
Q301
Q351
D201
D202
D203
D204
D205
D206
D207
D208
D1
T4
T5
T7
T8
T9
T10
T11
T12
IFT201
POWER AMP BOARD E
(LAMP PL1~3) F
(199, 200, 301~303) A
(201, 202) B
(USA, CANADA MODEL) (208, 209, 212, 213, 215) (203~207, 210, 211, 216) C
(101, 650, 652) D
(650, 652 : USA, CANADA MODEL)
PL5 DOLBY FM
PL4 STEREO
USA, CANADA MODEL
(★AEP MODEL)
OUTPUT LEVEL
SIGNAL METER
MUTING LEVEL
VCO
S17 DE-EMPHASIS 75μS ↔ 50μS
LAMP HOLDER
ME2 FM TUNING
(CLEAR)
SIGNAL MULTIPATH
ME1
15V
30V
IC301
301
IC201
201
202
204
203
205
IC351
351
207
209
212
206
IC202
215
213
214
208
1



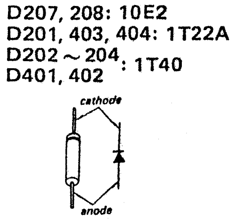
Q201 ~ 203
Q405, 406 : 2SC710



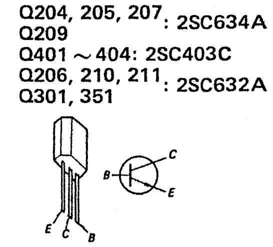
D206: EQA01-16R



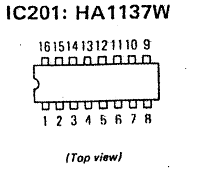
Q208: 2SA677



D207, 208: 10E2
D201, 403, 404: 1T22A
D202 ~ 204
D401, 402 : 1T40

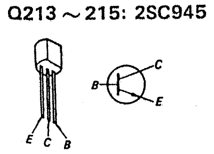


Q204, 205, 207
Q209 : 2SC634A
Q401 ~ 404: 2SC403C
Q206, 210, 211
Q301, 351 : 2SC632A

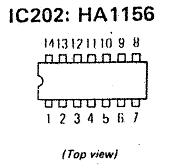


IC201: HA1137W

(Top view)

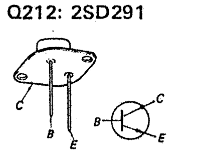


Q213 ~ 215: 2SC945

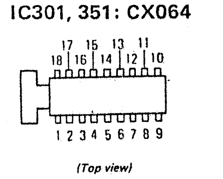


IC202: HA1156

(Top view)

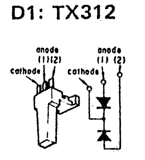


Q212: 2SD291

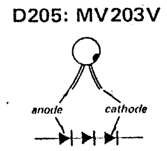


IC301, 351: CX064

(Top view)



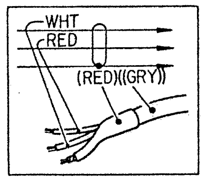
D1: TX312



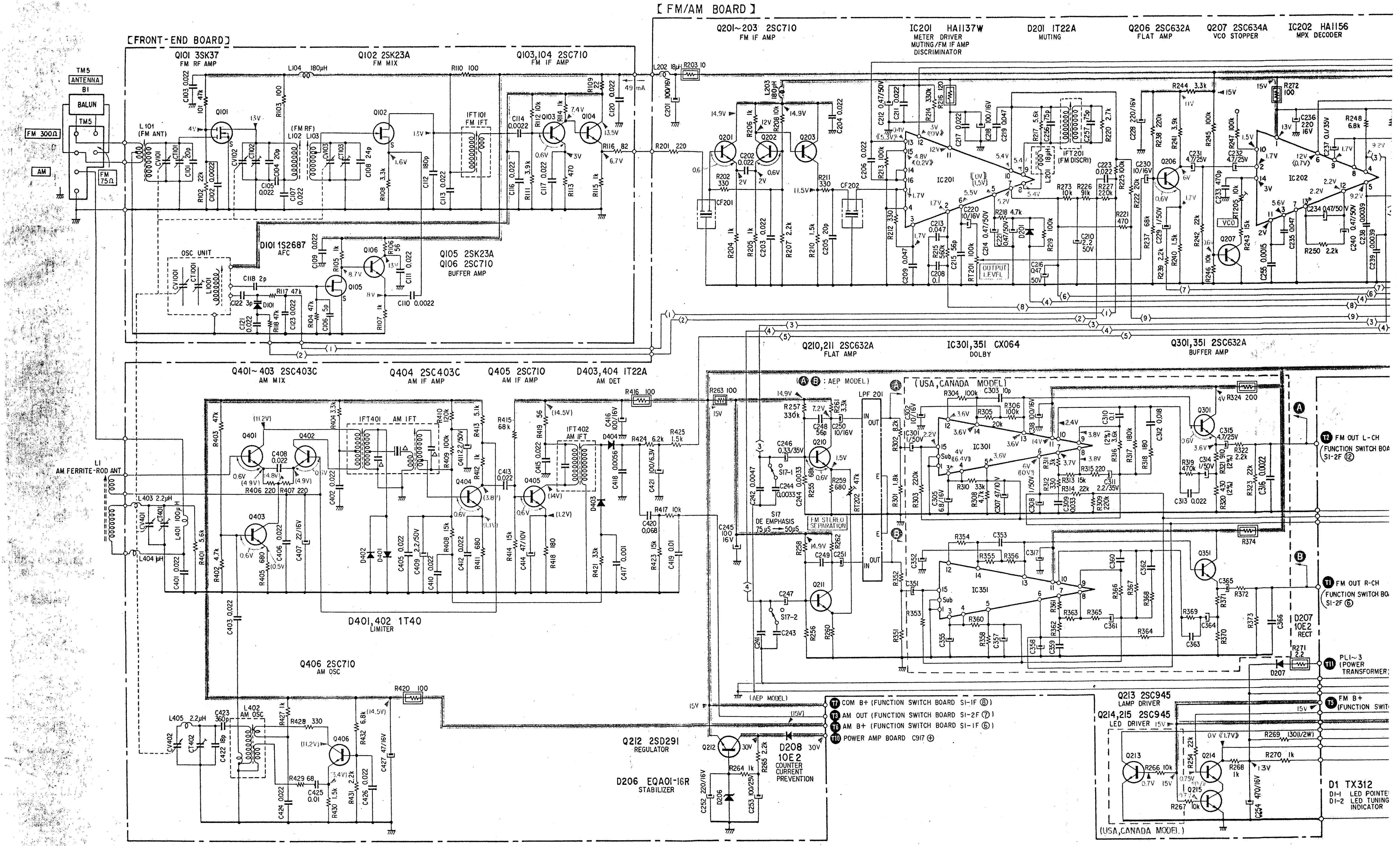
D205: MV203V

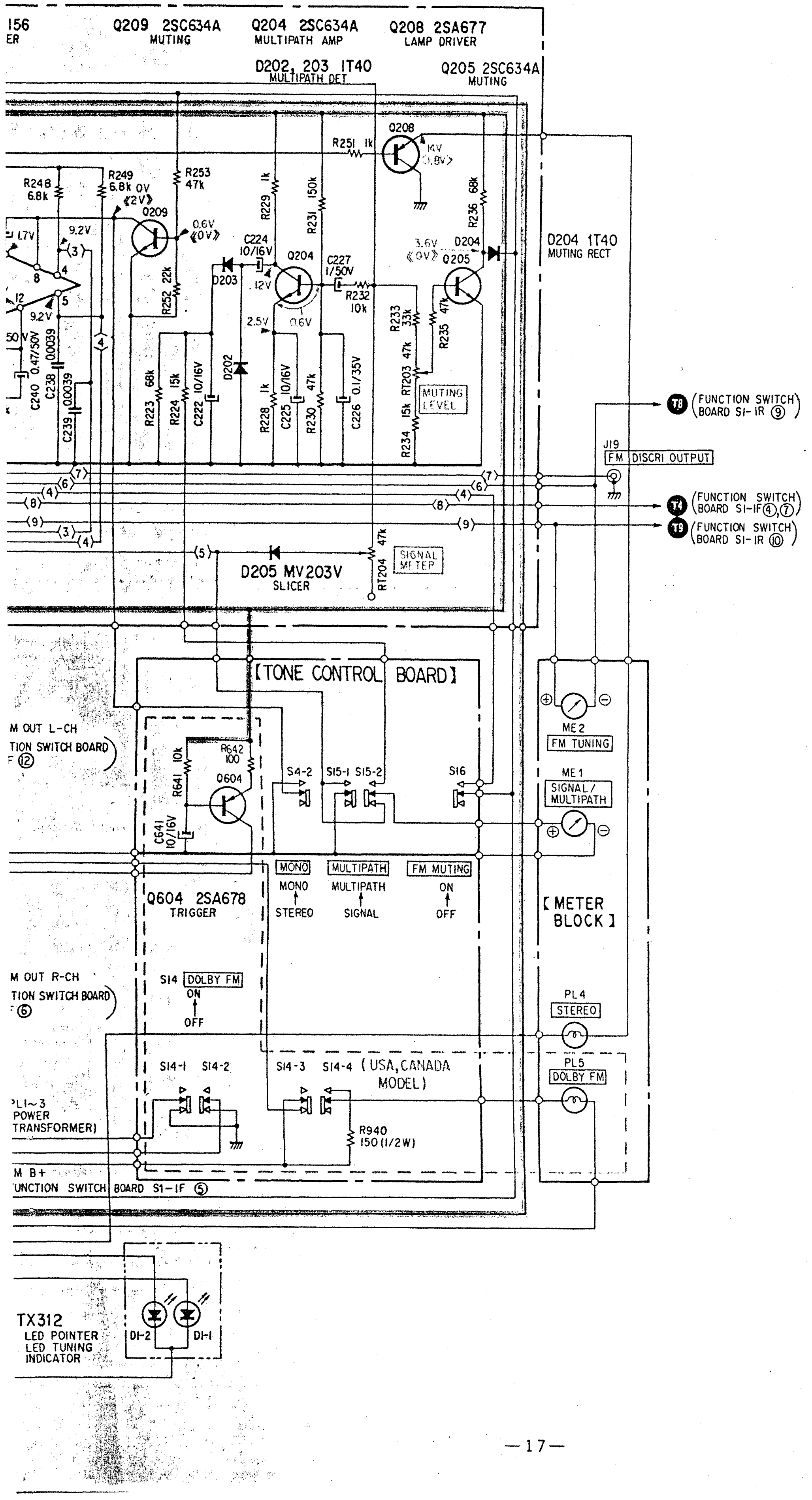
Note:

- : B+ pattern
- : nonflammable resistor
- : part number side


WHT
RED
(RED)(GRY)

4-2. SCHEMATIC DIAGRAM – FRONT-END, FM/AM Section –


[FM/AM BOARD]
[FRONT-END BOARD]
TM5 ANTENNA
B1 BALUN
FM 300Ω
FM 75Ω
AM
L101 (FM ANT)
Q101 3SK37 FM RF AMP
Q102 2SK23A FM MIX
Q103,104 2SC710 FM IF AMP
IFT101 FM IFT
OSC UNIT
D101 1S2687 AFC
Q105 2SK23A
Q106 2SC710
BUFFER AMP
Q201~203 2SC710 FM IF AMP
IC201 HA1137W METER DRIVER MUTING/FM IF AMP DISCRIMINATOR
D201 1T22A MUTING
Q206 2SC632A FLAT AMP
Q207 2SC634A VCO STOPPER
IC202 HA1156 MPX DECODER
IFT201 (FM DISCRI)
OUTPUT LEVEL
VCO
L1 AM FERRITE-ROD ANT
Q401~403 2SC403C AM MIX
Q404 2SC403C AM IF AMP
Q405 2SC710 AM IF AMP
D403,404 1T22A AM DET
IFT401 AM IFT
IFT402 AM IFT
D401,402 1T40 LIMITER
Q406 2SC710 AM OSC
L402 AM OSC
Q210,211 2SC632A FLAT AMP
IC301,351 CX064 DOLBY
Q301,351 2SC632A BUFFER AMP
Ⓐ Ⓑ : AEP MODEL)
(USA, CANADA MODEL)
LPF 201
S17 DE EMPHASIS 75μS ⟷ 50μS
FM STEREO SEPARATION
IC301
IC351
T2 FM OUT L-CH (FUNCTION SWITCH BOA S1-2F ⑫
T1 FM OUT R-CH (FUNCTION SWITCH BO S1-2F ⑤
D207 10E2 RECT
T11 PL1~3 (POWER TRANSFORMER
T7 COM B+ (FUNCTION SWITCH BOARD S1-1F ⑧)
T3 AM OUT (FUNCTION SWITCH BOARD S1-2F ⑦)
T8 AM B+ (FUNCTION SWITCH BOARD S1-1F ⑥)
T10 POWER AMP BOARD C917 ⊕
T5 FM B+ (FUNCTION SWIT
(AEP MODEL)
Q212 2SD291 REGULATOR
D208 10E2 COUNTER CURRENT PREVENTION
D206 EQA01-16R STABILIZER
Q213 2SC945 LAMP DRIVER
Q214,215 2SC945 LED DRIVER
(USA, CANADA MODEL)
D1 TX312
D1-1 LED POINTE
D1-2 LED TUNING INDICATOR


Q209 2SC634A MUTING
Q204 2SC634A MULTIPATH AMP
Q208 2SA677 LAMP DRIVER
D202, 203 1T40 MULTIPATH DET
Q205 2SC634A MUTING
D204 1T40 MUTING RECT
MUTING LEVEL
SIGNAL METER
D205 MV203V SLICER
J19 FM DISCRI OUTPUT
T8 (FUNCTION SWITCH BOARD S1-IR ⑨)
T4 (FUNCTION SWITCH BOARD S1-IF ④,⑦)
T3 (FUNCTION SWITCH BOARD S1-IR ⑩)
[TONE CONTROL BOARD]
Q604 2SA678 TRIGGER
S4-2
S15-1 S15-2
S16
MONO
MULTIPATH
FM MUTING
S14 DOLBY FM
S14-1 S14-2
S14-3 S14-4 (USA, CANADA MODEL)
R940 150 (1/2W)
ME2 FM TUNING
ME1 SIGNAL/MULTIPATH
[METER BLOCK]
PL4 STEREO
PL5 DOLBY FM
M OUT L-CH
TION SWITCH BOARD
M OUT R-CH
TION SWITCH BOARD
PL1~3 POWER TRANSFORMER)
M B+
UNCTION SWITCH BOARD S1-IF ⑤
TX312 LED POINTER LED TUNING INDICATOR
DI-2
DI-1

Note:

- All capacitors are in μF unless otherwise noted. 50 or less working volts are omitted except for electrolytic type. p = μμF.
- All resistors are in Ω, ¼W, unless otherwise noted. k = 1,000 M = 1,000k
- —▭— indicates nonflammable resistor
- △ indicates internal components
- ⏚ indicates chassis ground
- (2%) of resistor indicates the tolerance (±2%).
- ▬ indicates B+ circuit
- Voltages are DC with respect to ground unless otherwise noted. Readings are taken under no-signal conditions with a VOM (20kΩ/V).

  ≪ ≫ : FM (Tuned in FM signal) < > : FM STEREO

  (( )) : DOLBY FM (S14) ——ON [[ ]] : MUTING (S16) (Tuned in FM signal) —— ON

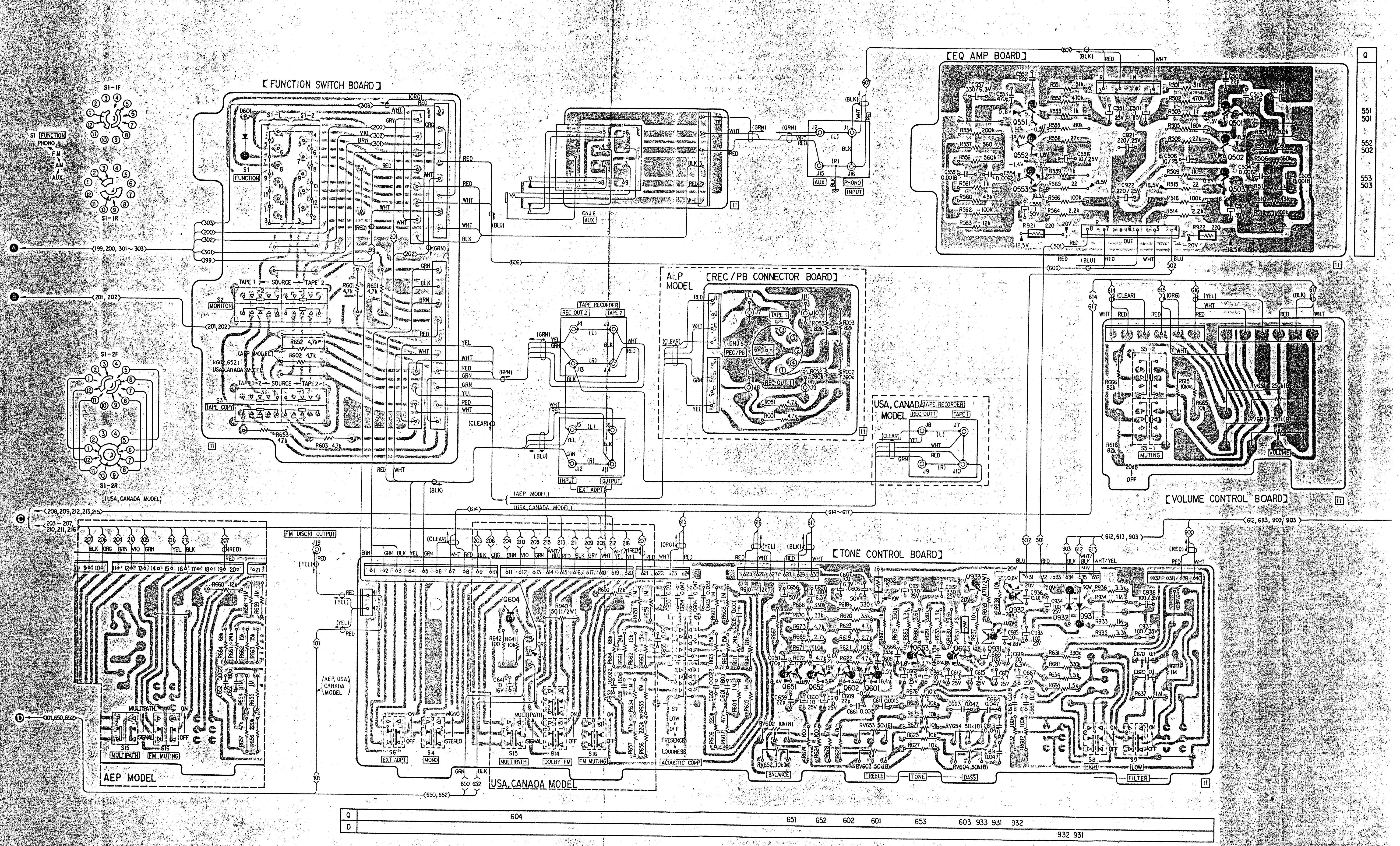
  [ ] : MUTING (S16) (no signal input) —— ON ( ) : FUNCTION (S1) ——AM

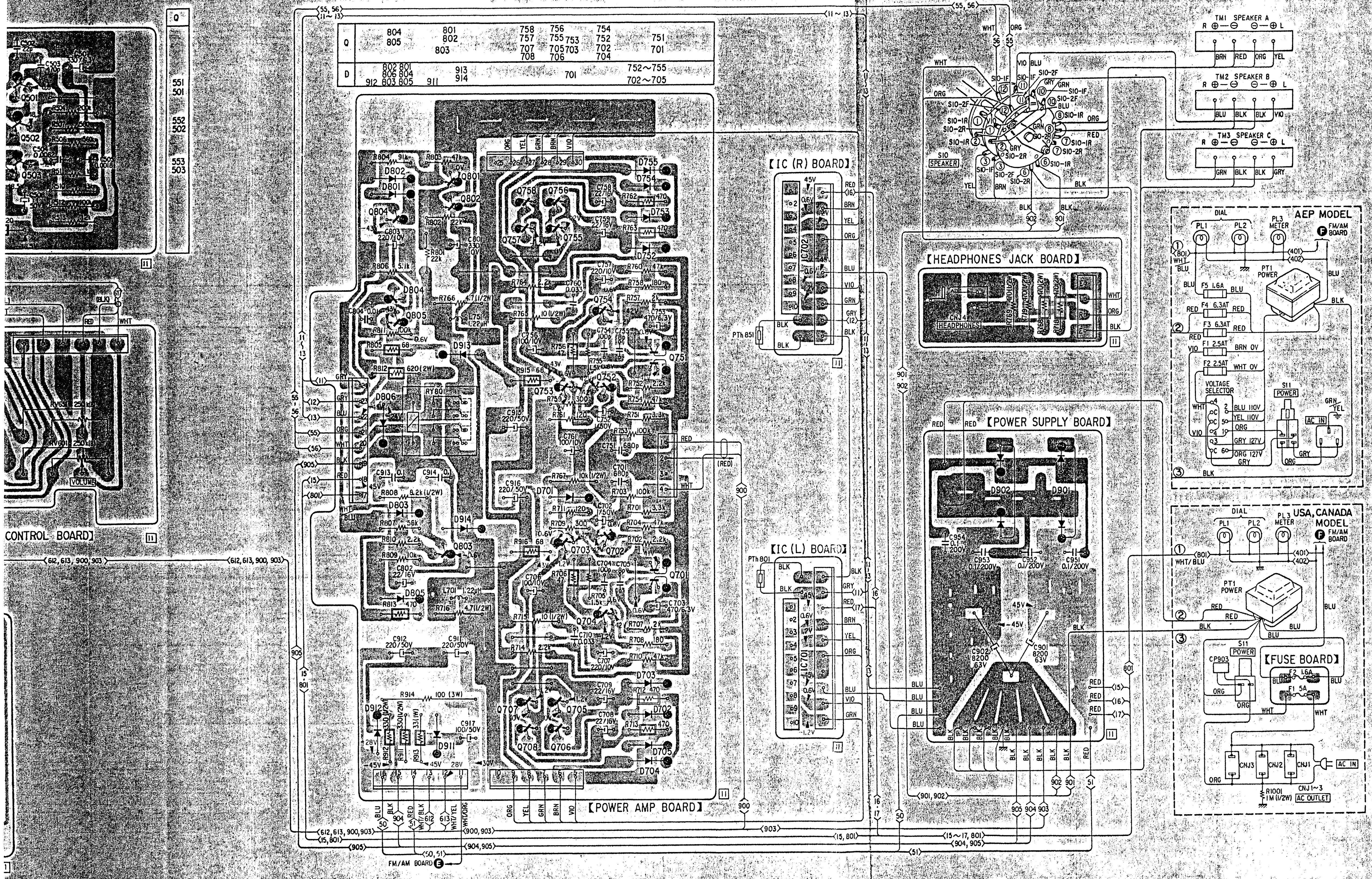
  no mark: FUNCTION (S1) —— FM
- Voltage variations may be noted due to normal production tolerances.
- Voltage between base and emitter are measured with 2.5 V range.
- Switch Mode:

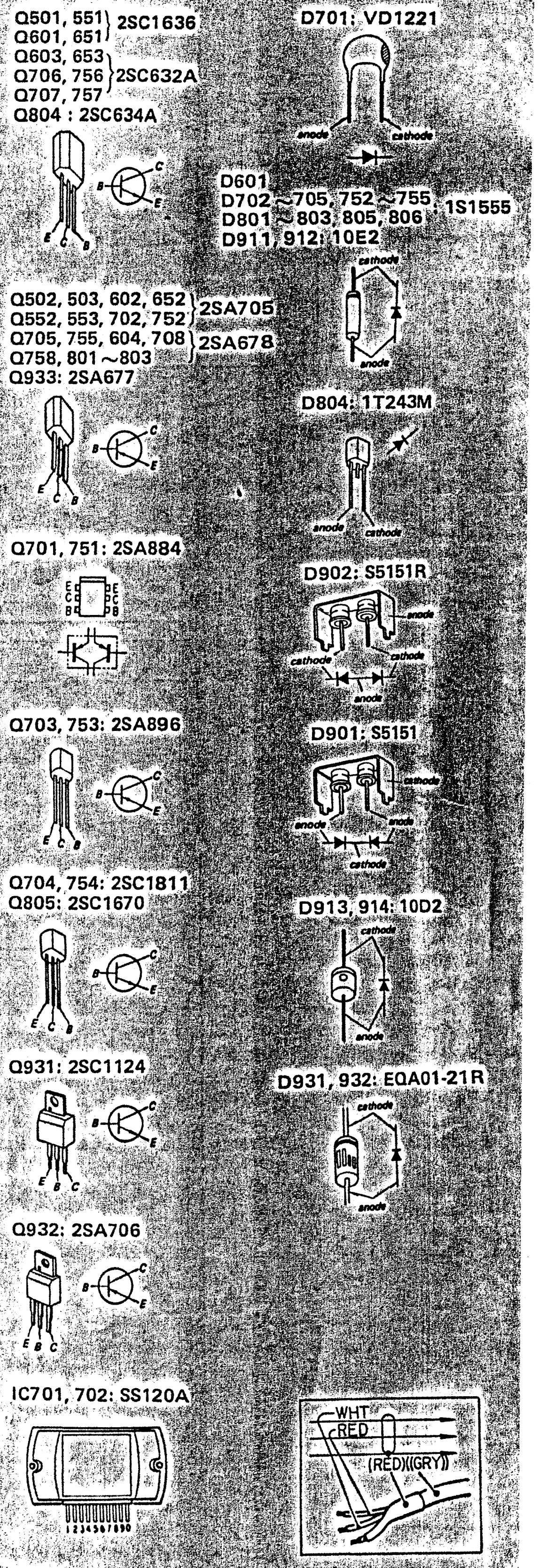
Ref. No.	Switch	Position
S4	MONO	STEREO
S14	DOLBY FM (USA, CANADA MODEL)	OFF
S15	MULTIPATH	SIGNAL
S16	FM MUTING	OFF
S17	DE-EMPHASIS	75μs

4-3. MOUNTING DIAGRAM – AUDIO Amplifier Boards –

– Conductor Side –


[FUNCTION SWITCH BOARD]
[EQ AMP BOARD]
[REC/PB CONNECTOR BOARD]
AEP MODEL
USA, CANADA MODEL
[VOLUME CONTROL BOARD]
[TONE CONTROL BOARD]
S1 FUNCTION
PHONO
FM
AM
AUX
S1-1F
S1-1R
S1-2F
S1-2R
(USA, CANADA MODEL)
S2 MONITOR
S3 TAPE COPY
TAPE 1
SOURCE
TAPE 2
CNJ 6 AUX
J15 AUX
J16 PHONO INPUT
TAPE RECORDER
REC OUT 2
TAPE 2
INPUT
OUTPUT
EXT ADPT
CNJ 5 REC/PB
REC OUT 1
TAPE 1
S5-2
S5-1 MUTING
VOLUME
RV651 250k(B)
RV601 250k(B)
FM DISCRI OUTPUT
J19
MULTIPATH
FM MUTING
S15
S16
AEP MODEL
S6 EXT ADPT
S4 MONO
STEREO
S15 MULTIPATH
S14 DOLBY FM
S16 FM MUTING
S7 ACOUSTIC COMP
LOW
OFF
PRESENCE
LOUDNESS
RV652 10k(M) BALANCE
RV653 50k(B) TREBLE
TONE
RV654 50k(B) BASS
RV604 50k(B)
S8 HIGH
S9 LOW
FILTER
(199, 200, 301 ~ 303)
(201, 202)
(208, 209, 212, 213, 215)
(203 ~ 207, 210, 211, 216)
(601, 650, 652)
(614 ~ 617)
(612, 613, 900, 903)
(650, 652)
(AEP MODEL)
(USA, CANADA MODEL)
Q
551 501
552 502
553 503
Q 604 651 652 602 601 653 603 933 931 932
D 932 931

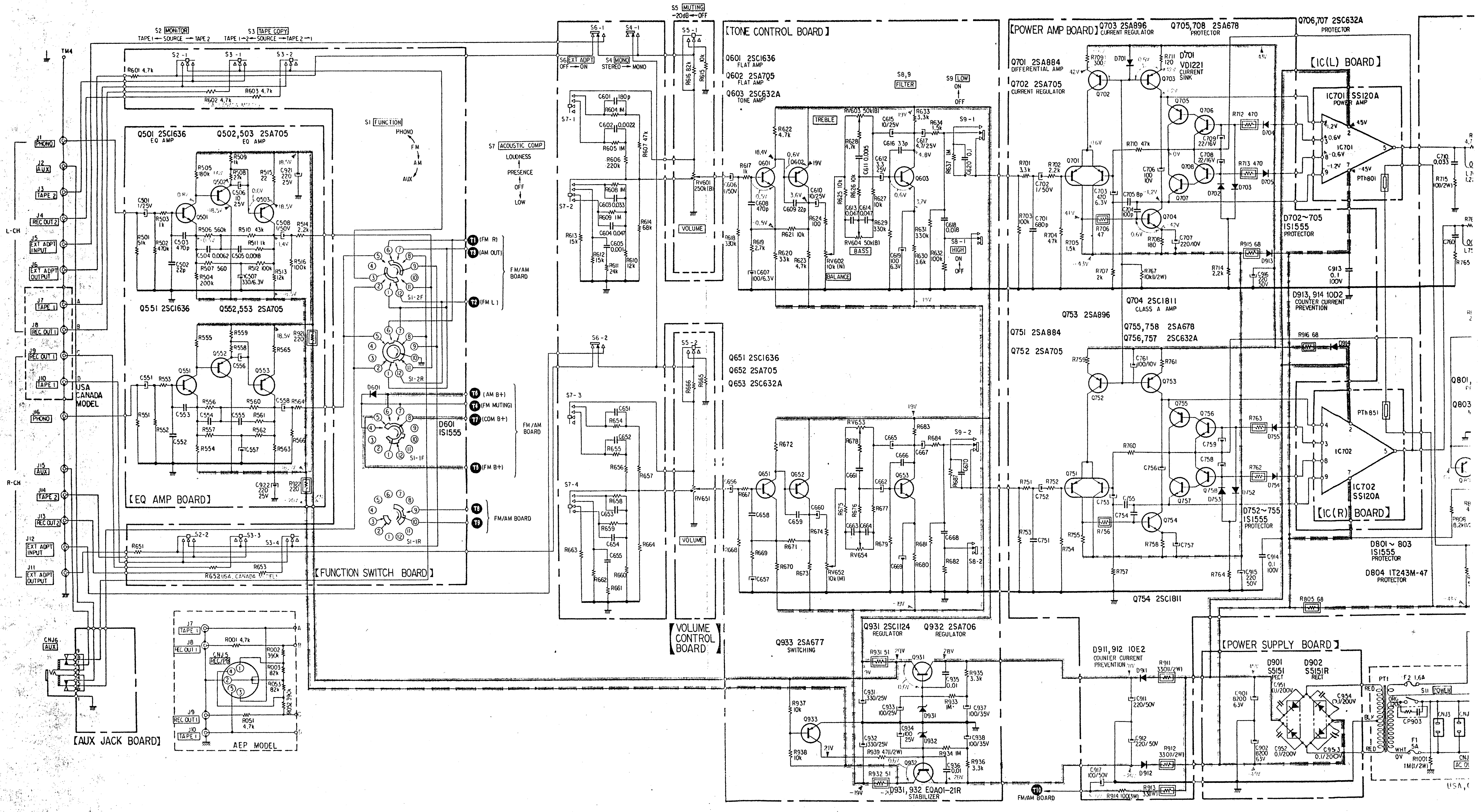

CONTROL BOARD
VOLUME
【IC (R) BOARD】
IC702
【HEADPHONES JACK BOARD】
HEADPHONES
【POWER SUPPLY BOARD】
【IC (L) BOARD】
IC701
【POWER AMP BOARD】
FM/AM BOARD E
TM1 SPEAKER A
TM2 SPEAKER B
TM3 SPEAKER C
S10 SPEAKER
AEP MODEL
USA, CANADA MODEL
DIAL
PL1
PL2
PL3 METER
PT1 POWER
VOLTAGE SELECTOR
S11 POWER
AC IN
【FUSE BOARD】
CP903
CNJ1~3
AC OUTLET
R1001 1M (1/2W)
Q
D
804 805 801 802 803 758 757 707 708 756 755 753 705 703 706 754 752 702 704 751 701
802 801 806 804 912 803 805 913 914 911 701 752~755 702~705
C902 8200 63V
C901 8200 63V
D902
D901
45V
-45V

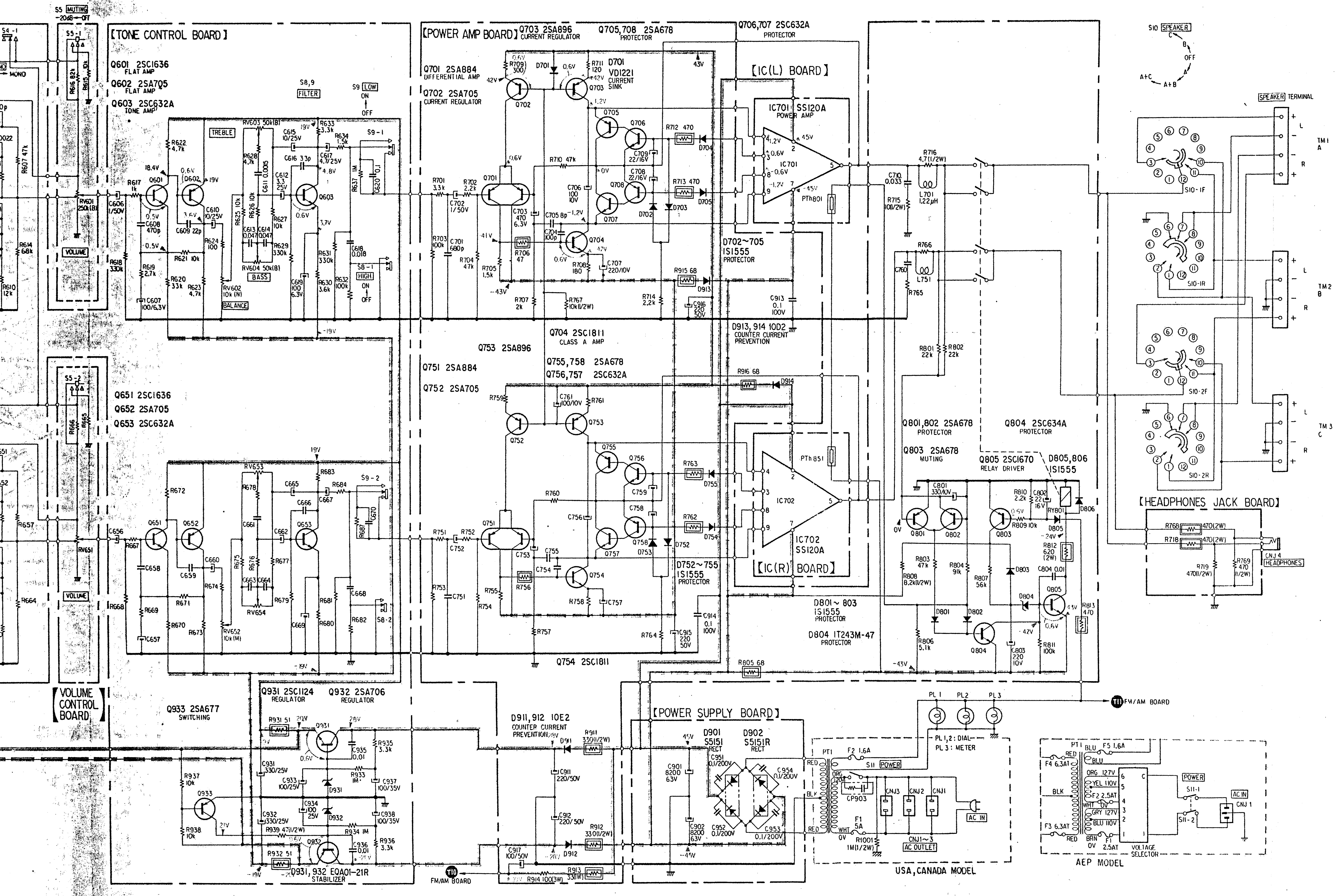

Q501, 551
Q601, 651
2SC1636
Q603, 653
Q706, 756
Q707, 757
2SC632A
Q804 : 2SC634A
E C B
B C E
D701: VD1221
anode
cathode
D601
D702~705, 752~755
D801~803, 805, 806
1S1555
D911, 912: 10E2
cathode
anode
Q502, 503, 602, 652
Q552, 553, 702, 752
2SA705
Q705, 755, 604, 708
Q758, 801~803
2SA678
Q933: 2SA677
D804: 1T243M
anode
cathode
Q701, 751: 2SA884
E C B
D902: S5151R
anode
cathode
cathode
anode
Q703, 753: 2SA896
D901: S5151
cathode
anode
anode
cathode
Q704, 754: 2SC1811
Q805: 2SC1670
D913, 914: 10D2
cathode
anode
Q931: 2SC1124
E B C
D931, 932: EQA01-21R
cathode
anode
Q932: 2SA706
IC701, 702: SS120A
1 2 3 4 5 6 7 8 9 0
WHT
RED
(RED)((GRY))

Note:

- ▨ : B+ pattern
- ■ : B– pattern
- —[⩘]— : nonflammable resistor

4-4. SCHEMATIC DIAGRAM – AUDIO Amplifier Section –


S2 MONITOR
TAPE 1 ← SOURCE → TAPE 2
S3 TAPE COPY
TAPE 1→2 ← SOURCE → TAPE 2→1
S5 MUTING
-20dB ← → OFF
S6 EXT ADPT
OFF ← → ON
S4 MONO
STEREO ← → MONO
S1 FUNCTION
PHONO
FM
AM
AUX
S7 ACOUSTIC COMP
LOUDNESS
PRESENCE
OFF
LOW
Q501 2SC1636
EQ AMP
Q502,503 2SA705
EQ AMP
Q551 2SC1636
Q552,553 2SA705
[EQ AMP BOARD]
[FUNCTION SWITCH BOARD]
[AUX JACK BOARD]
AEP MODEL
USA CANADA MODEL
L-CH
R-CH
J1 PHONO
J2 AUX
J3 TAPE 2
J4 REC OUT 2
J5 EXT ADPT INPUT
J6 EXT ADPT OUTPUT
J7 TAPE 1
J8 REC OUT 1
J9 REC OUT 1
J10 TAPE 1
J16 PHONO
J15 AUX
J14 TAPE 2
J13 REC OUT 2
J12 EXT ADPT INPUT
J11 EXT ADPT OUTPUT
CNJ6 AUX
CNJ5 REC/PB
D601 1S1555
(FM R)
(AM OUT)
(FM L)
(AM B+)
(FM MUTING)
(COM B+)
(FM B+)
FM/AM BOARD
[VOLUME CONTROL BOARD]
VOLUME
RV601 250k(B)
[TONE CONTROL BOARD]
Q601 2SC1636
FLAT AMP
Q602 2SA705
FLAT AMP
Q603 2SC632A
TONE AMP
Q651 2SC1636
Q652 2SA705
Q653 2SC632A
S8,9 FILTER
S9 LOW
ON
OFF
S8-1 HIGH
TREBLE
RV603 50k(B)
BASS
RV604 50k(B)
BALANCE
RV602 10k(N)
[POWER AMP BOARD]
Q703 2SA896
CURRENT REGULATOR
Q705,708 2SA678
PROTECTOR
Q706,707 2SC632A
PROTECTOR
Q701 2SA884
DIFFERENTIAL AMP
Q702 2SA705
CURRENT REGULATOR
D701 VD1221
CURRENT SINK
D702~705 1S1555
PROTECTOR
D913, 914 10D2
COUNTER CURRENT PREVENTION
Q704 2SC1811
CLASS A AMP
Q753 2SA896
Q751 2SA884
Q752 2SA705
Q755,758 2SA678
Q756,757 2SC632A
D752~755 1S1555
PROTECTOR
Q754 2SC1811
[IC(L) BOARD]
IC701 SS120A
POWER AMP
[IC(R) BOARD]
IC702 SS120A
D801~803 1S1555
PROTECTOR
D804 1T243M-47
PROTECTOR
Q931 2SC1124
REGULATOR
Q932 2SA706
REGULATOR
Q933 2SA677
SWITCHING
D931, 932 EQA01-21R
STABILIZER
D911, 912 10E2
COUNTER CURRENT PREVENTION
[POWER SUPPLY BOARD]
D901 S5151
RECT
D902 S5151R
RECT
PT1
F2 1.6A
S11 POWER
F1 5A
FM/AM BOARD


S5 MUTING
【TONE CONTROL BOARD】
Q601 2SC1636 FLAT AMP
Q602 2SA705 FLAT AMP
Q603 2SC632A TONE AMP
S8,9 FILTER
S9 LOW
TREBLE
BASS
BALANCE
VOLUME
Q651 2SC1636
Q652 2SA705
Q653 2SC632A
【VOLUME CONTROL BOARD】
【POWER AMP BOARD】
Q701 2SA884 DIFFERENTIAL AMP
Q702 2SA705 CURRENT REGULATOR
Q703 2SA896 CURRENT REGULATOR
Q705,708 2SA678 PROTECTOR
Q706,707 2SC632A PROTECTOR
D701 VD1221 CURRENT SINK
Q704 2SC1811 CLASS A AMP
Q751 2SA884
Q752 2SA705
Q753 2SA896
Q755,758 2SA678
Q756,757 2SC632A
Q754 2SC1811
D702~705 1S1555 PROTECTOR
D752~755 1S1555 PROTECTOR
D913, 914 10D2 COUNTER CURRENT PREVENTION
【IC(L) BOARD】
IC701 SS120A POWER AMP
PTh801
【IC(R) BOARD】
IC702 SS120A
PTh851
Q801,802 2SA678 PROTECTOR
Q803 2SA678 MUTING
Q804 2SC634A PROTECTOR
Q805 2SC1670 RELAY DRIVER
D805,806 1S1555
D801~803 1S1555 PROTECTOR
D804 1T243M-47 PROTECTOR
RY801
S10 SPEAKER
A+C
A+B
OFF
SPEAKER TERMINAL
TM1 A
TM2 B
TM3 C
S10-1F
S10-1R
S10-2F
S10-2R
【HEADPHONES JACK BOARD】
CNJ4 HEADPHONES
Q931 2SC1124 REGULATOR
Q932 2SA706 REGULATOR
Q933 2SA677 SWITCHING
D931,932 EQA01-21R STABILIZER
D911,912 10E2 COUNTER CURRENT PREVENTION
【POWER SUPPLY BOARD】
D901 S5151 RECT
D902 S5151R RECT
T10 FM/AM BOARD
T11 FM/AM BOARD
PL1 PL2 PL3
PL1,2: DIAL
PL3: METER
PT1
F2 1.6A
S11 POWER
F1 5A
AC IN
AC OUTLET
CNJ1~3
USA,CANADA MODEL
F5 1.6A
F4 6.3AT
F3 6.3AT
F2 2.5AT
F1 2.5AT
VOLTAGE SELECTOR
S11-1
S11-2
CNJ1
AEP MODEL

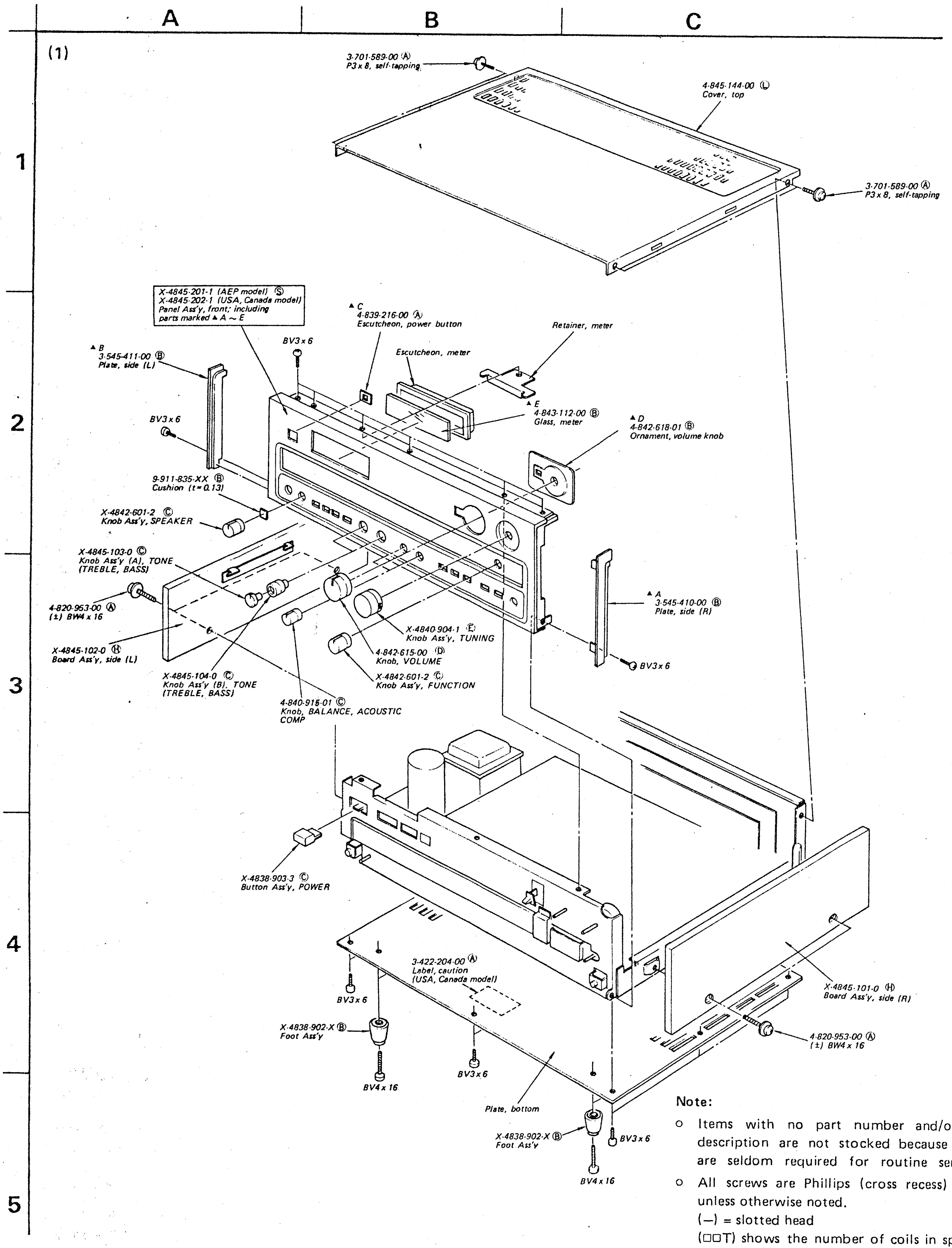
Note:

- All capacitors are in μF unless otherwise noted. 50 or le working volts are omitted except for electrolytic typ p = $\mu\mu$F.
- All resistors are in Ω, ¼W, unless otherwise note k = 1,000 M = 1,000k
- ⏚ indicates chassis ground.
- ▭ indicates nonflammable resistor.
- ▬ indicates B+ circuit.
- ▪▪▪ indicates B− circuit.
- Voltages are DC with respect to ground unless otherwi noted. Readings are taken under no-signal conditio with a VOM (20 kΩ/V).
- Voltage variations may be noted due to normal produ tion tolerances.
- Voltage between base and emitter are measured wi 2.5 V range.
- Switch Mode:

Ref. No.	Switch	Position
S1	FUNCTION	FM
S2	MONITOR	SOURCE
S3	TAPE COPY	SOURCE
S4	MONO	STEREO
S5	MUTING	OFF
S6	EXT ADPT	OFF
S7	ACOUSTIC COMP	OFF
S8	HIGH FILTER	OFF
S9	LOW FILTER	OFF
S10	SPEAKER	OFF
S11	POWER	OFF

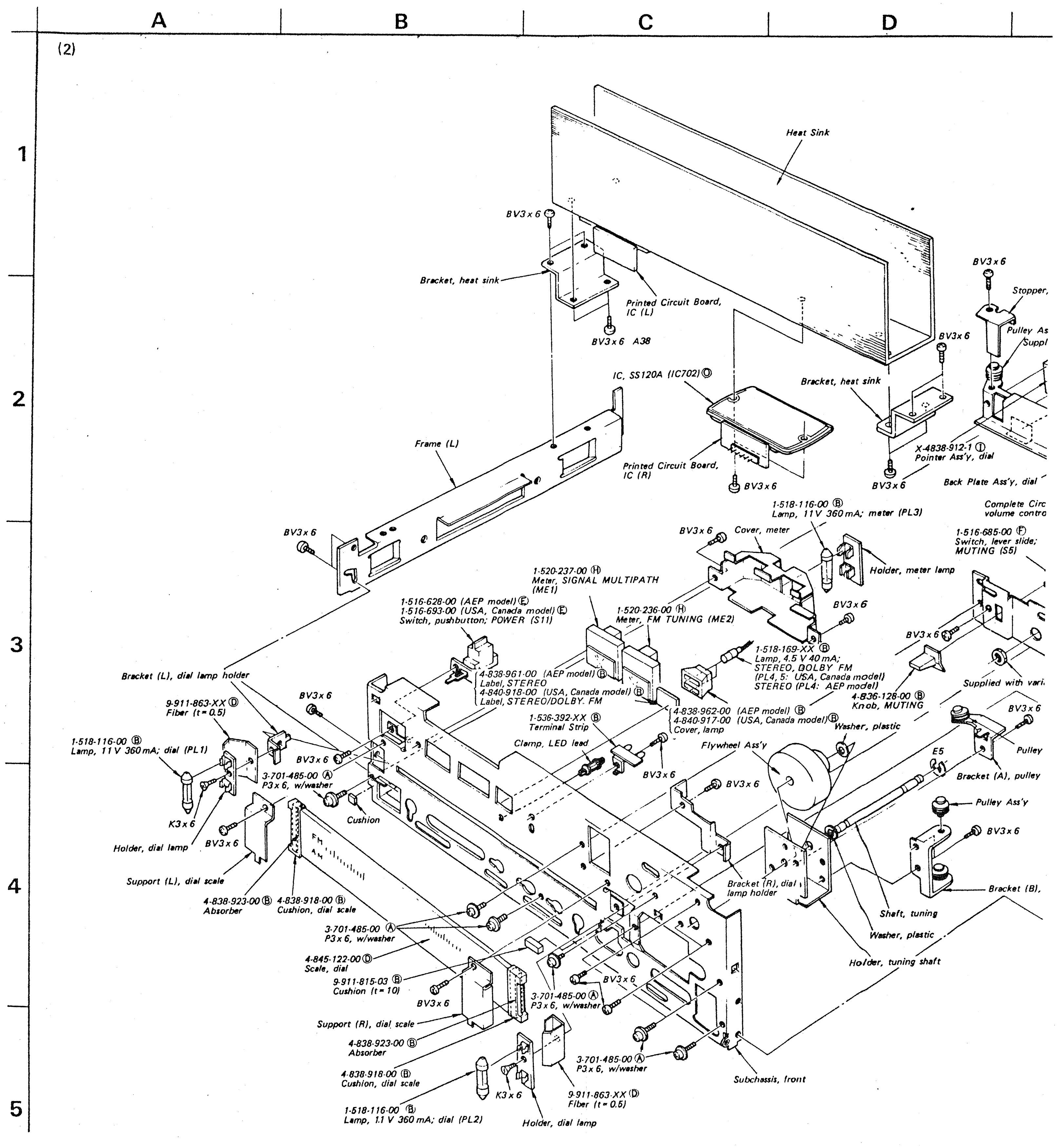
SECTION 5

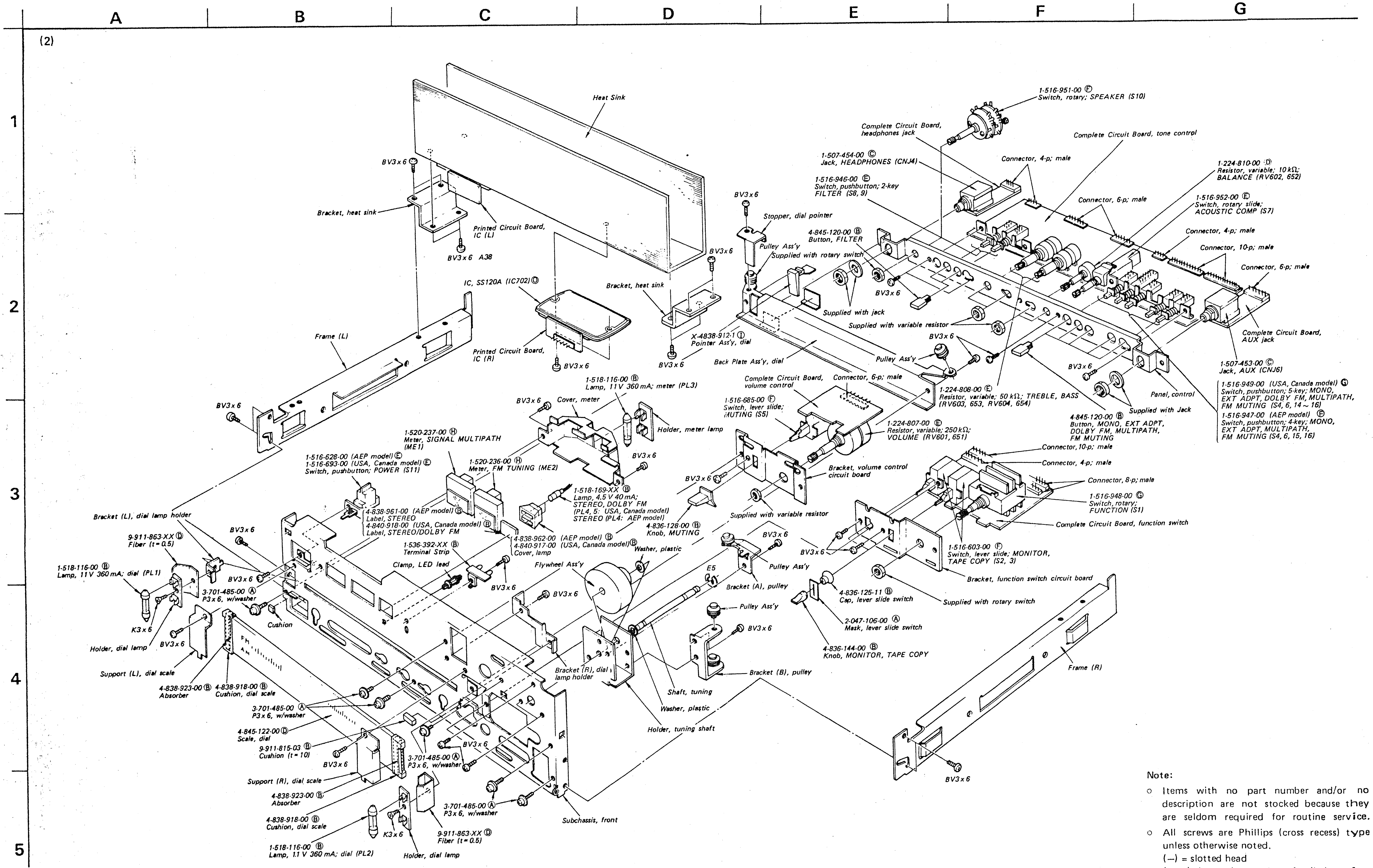
EXPLODED VIEWS


A
B
C
1
2
3
4
5
(1)
3-701-589-00 Ⓐ
P3 x 8, self-tapping
4-845-144-00 Ⓛ
Cover, top
3-701-589-00 Ⓐ
P3 x 8, self-tapping
X-4845-201-1 (AEP model) Ⓢ
X-4845-202-1 (USA, Canada model)
Panel Ass'y, front; including
parts marked ▲A ~ E
▲C
4-839-216-00 Ⓐ
Escutcheon, power button
Retainer, meter
▲B
3-545-411-00 Ⓑ
Plate, side (L)
BV3 x 6
Escutcheon, meter
▲E
4-843-112-00 Ⓑ
Glass, meter
▲D
4-842-618-01 Ⓑ
Ornament, volume knob
BV3 x 6
9-911-835-XX Ⓑ
Cushion (t = 0.13)
X-4842-601-2 Ⓒ
Knob Ass'y, SPEAKER
X-4845-103-0 Ⓒ
Knob Ass'y (A), TONE
(TREBLE, BASS)
4-820-953-00 Ⓐ
(±) BW4 x 16
X-4845-102-0 Ⓗ
Board Ass'y, side (L)
X-4845-104-0 Ⓒ
Knob Ass'y (B), TONE
(TREBLE, BASS)
4-840-915-01 Ⓒ
Knob, BALANCE, ACOUSTIC
COMP
X-4840-904-1 Ⓔ
Knob Ass'y, TUNING
4-842-615-00 Ⓓ
Knob, VOLUME
X-4842-601-2 Ⓒ
Knob Ass'y, FUNCTION
▲A
3-545-410-00 Ⓑ
Plate, side (R)
BV3 x 6
X-4838-903-3 Ⓒ
Button Ass'y, POWER
3-422-204-00 Ⓐ
Label, caution
(USA, Canada model)
BV3 x 6
X-4838-902-X Ⓑ
Foot Ass'y
BV4 x 16
BV3 x 6
Plate, bottom
X-4838-902-X Ⓑ
Foot Ass'y
BV3 x 6
BV4 x 16
X-4845-101-0 Ⓗ
Board Ass'y, side (R)
4-820-953-00 Ⓐ
(±) BW4 x 16

Note:

- o Items with no part number and/or no description are not stocked because they are seldom required for routine service.
- o All screws are Phillips (cross recess) type unless otherwise noted.
  (—) = slotted head
  (□□T) shows the number of coils in spring.
- o The circled letters (Ⓐ to Ⓩ) are applicable for the European model only.


A
B
C
D
1
2
3
4
5
(2)
Heat Sink
BV3 x 6
Bracket, heat sink
Printed Circuit Board,
IC (L)
BV3 x 6 A38
IC, SS120A (IC702) Ⓞ
Bracket, heat sink
BV3 x 6
Stopper,
Pulley As
Suppl
BV3 x 6
Frame (L)
Printed Circuit Board,
IC (R)
BV3 x 6
BV3 x 6
X-4838-912-1 Ⓘ
Pointer Ass'y, dial
Back Plate Ass'y, dial
Complete Circ
volume contro
1-518-116-00 Ⓑ
Lamp, 11 V 360 mA; meter (PL3)
BV3 x 6
BV3 x 6
Cover, meter
Holder, meter lamp
1-516-685-00 Ⓕ
Switch, lever slide;
MUTING (S5)
1-520-237-00 Ⓗ
Meter, SIGNAL MULTIPATH
(ME1)
1-516-628-00 (AEP model) Ⓔ
1-516-693-00 (USA, Canada model) Ⓔ
Switch, pushbutton; POWER (S11)
1-520-236-00 Ⓗ
Meter, FM TUNING (ME2)
BV3 x 6
BV3 x 6
1-518-169-XX Ⓑ
Lamp, 4.5 V 40 mA;
STEREO, DOLBY FM
(PL4, 5: USA, Canada model)
STEREO (PL4: AEP model)
Supplied with vari
4-836-128-00 Ⓑ
Knob, MUTING
Bracket (L), dial lamp holder
9-911-863-XX Ⓓ
Fiber (t = 0.5)
BV3 x 6
4-838-961-00 (AEP model) Ⓑ
Label, STEREO
4-840-918-00 (USA, Canada model) Ⓑ
Label, STEREO/DOLBY FM
4-838-962-00 (AEP model) Ⓑ
4-840-917-00 (USA, Canada model) Ⓑ
Cover, lamp
BV3 x 6
1-536-392-XX Ⓑ
Terminal Strip
Washer, plastic
1-518-116-00 Ⓑ
Lamp, 11 V 360 mA; dial (PL1)
BV3 x 6
Clamp, LED lead
Flywheel Ass'y
Pulley
3-701-485-00 Ⓐ
P3 x 6, w/washer
BV3 x 6
BV3 x 6
E5
Bracket (A), pulley
K3 x 6
Cushion
Pulley Ass'y
BV3 x 6
Holder, dial lamp
BV3 x 6
Support (L), dial scale
Bracket (R), dial
lamp holder
Bracket (B),
4-838-923-00 Ⓑ
Absorber
4-838-918-00 Ⓑ
Cushion, dial scale
Shaft, tuning
3-701-485-00 Ⓐ
P3 x 6, w/washer
Washer, plastic
4-845-122-00 Ⓓ
Scale, dial
Holder, tuning shaft
BV3 x 6
9-911-815-03 Ⓑ
Cushion (t = 10)
BV3 x 6
3-701-485-00 Ⓐ
P3 x 6, w/washer
Support (R), dial scale
4-838-923-00 Ⓑ
Absorber
4-838-918-00 Ⓑ
Cushion, dial scale
3-701-485-00 Ⓐ
P3 x 6, w/washer
Subchassis, front
K3 x 6
9-911-863-XX Ⓓ
Fiber (t = 0.5)
1-518-116-00 Ⓑ
Lamp, 1.1 V 360 mA; dial (PL2)
Holder, dial lamp
FM
AM

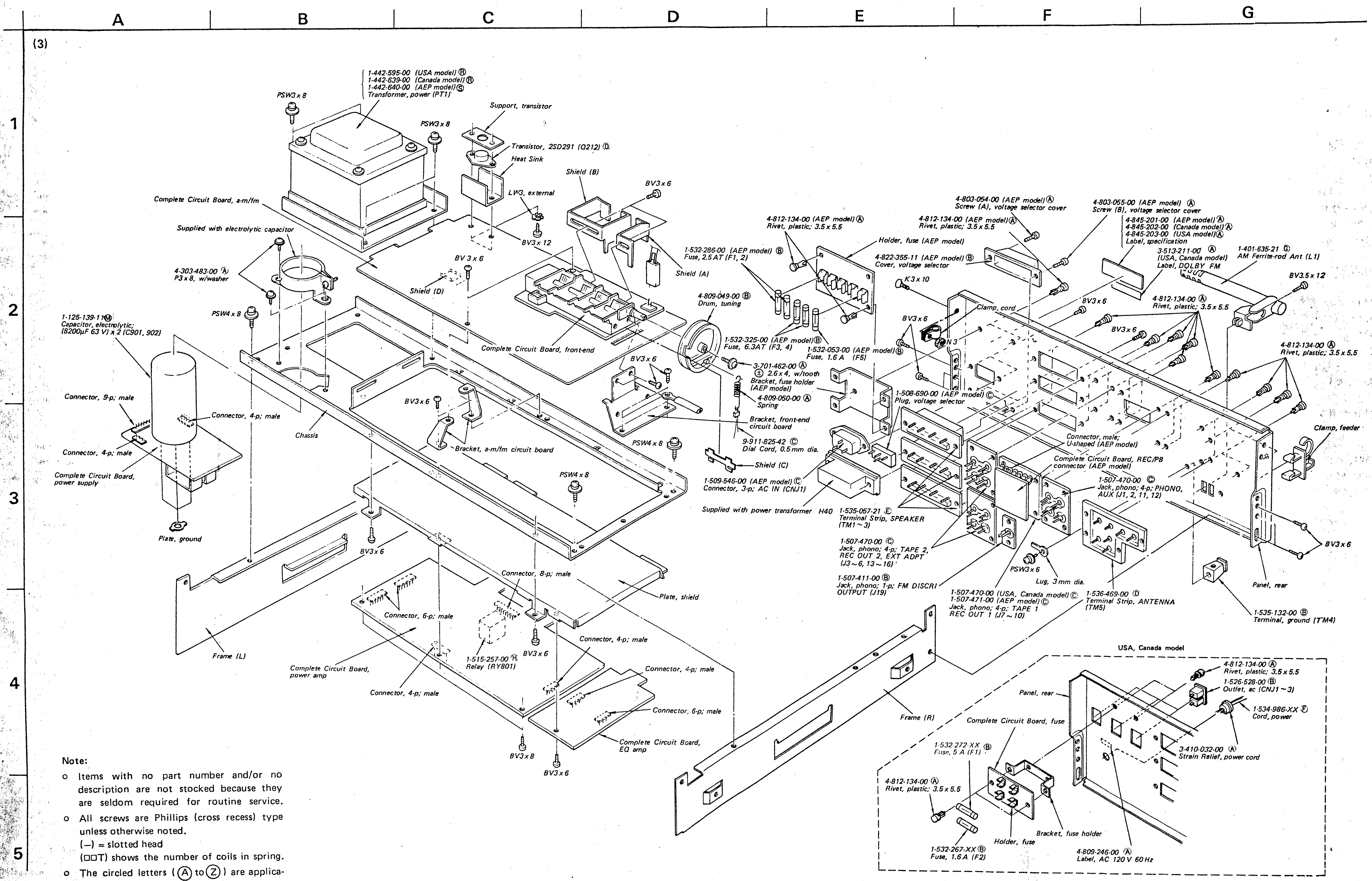

A
B
C
D
E
F
G
1
2
3
4
5
(2)
Heat Sink
BV3 x 6
Bracket, heat sink
Printed Circuit Board, IC (L)
BV3 x 6 A38
IC, SS120A (IC702) Ⓞ
Bracket, heat sink
BV3 x 6
Frame (L)
Printed Circuit Board, IC (R)
BV3 x 6
BV3 x 6
X-4838-912-1 Ⓘ Pointer Ass'y, dial
Back Plate Ass'y, dial
BV3 x 6
Stopper, dial pointer
Pulley Ass'y
Supplied with rotary switch
4-845-120-00 Ⓑ Button, FILTER
BV3 x 6
Supplied with jack
Supplied with variable resistor
BV3 x 6
Pulley Ass'y
1-516-951-00 Ⓕ Switch, rotary; SPEAKER (S10)
Complete Circuit Board, headphones jack
1-507-454-00 Ⓒ Jack, HEADPHONES (CNJ4)
1-516-946-00 Ⓔ Switch, pushbutton; 2-key FILTER (S8, 9)
Connector, 4-p; male
Complete Circuit Board, tone control
Connector, 6-p; male
1-224-810-00 Ⓓ Resistor, variable; 10 kΩ; BALANCE (RV602, 652)
1-516-952-00 Ⓔ Switch, rotary slide; ACOUSTIC COMP (S7)
Connector, 4-p; male
Connector, 10-p; male
Connector, 6-p; male
Complete Circuit Board, AUX jack
1-507-453-00 Ⓒ Jack, AUX (CNJ6)
1-516-949-00 (USA, Canada model) Ⓖ Switch, pushbutton; 5-key; MONO, EXT ADPT, DOLBY FM, MULTIPATH, FM MUTING (S4, 6, 14 ~ 16)
1-516-947-00 (AEP model) Ⓕ Switch, pushbutton; 4-key; MONO, EXT ADPT, MULTIPATH, FM MUTING (S4, 6, 15, 16)
BV3 x 6
Panel, control
Supplied with Jack
4-845-120-00 Ⓑ Button, MONO, EXT ADPT, DOLBY FM, MULTIPATH, FM MUTING
1-224-808-00 Ⓔ Resistor, variable; 50 kΩ; TREBLE, BASS (RV603, 653, RV604, 654)
Complete Circuit Board, volume control
Connector, 6-p; male
1-516-685-00 Ⓕ Switch, lever slide; MUTING (S5)
1-224-807-00 Ⓔ Resistor, variable; 250 kΩ; VOLUME (RV601, 651)
Bracket, volume control circuit board
BV3 x 6
Supplied with variable resistor
Connector, 10-p; male
Connector, 4-p; male
Connector, 8-p; male
1-516-948-00 Ⓖ Switch, rotary; FUNCTION (S1)
Complete Circuit Board, function switch
1-516-603-00 Ⓕ Switch, lever slide; MONITOR, TAPE COPY (S2, 3)
Bracket, function switch circuit board
Supplied with rotary switch
BV3 x 6
BV3 x 6
4-836-125-11 Ⓑ Cap, lever slide switch
2-047-106-00 Ⓐ Mask, lever slide switch
4-836-144-00 Ⓑ Knob, MONITOR, TAPE COPY
Frame (R)
BV3 x 6
1-518-116-00 Ⓑ Lamp, 11 V 360 mA; meter (PL3)
BV3 x 6
Cover, meter
Holder, meter lamp
BV3 x 6
1-520-237-00 Ⓗ Meter, SIGNAL MULTIPATH (ME1)
1-520-236-00 Ⓗ Meter, FM TUNING (ME2)
1-516-628-00 (AEP model) Ⓔ
1-516-693-00 (USA, Canada model) Ⓔ
Switch, pushbutton; POWER (S11)
1-518-169-XX Ⓑ Lamp, 4.5 V 40 mA; STEREO, DOLBY FM (PL4, 5: USA, Canada model) STEREO (PL4: AEP model)
4-838-961-00 (AEP model) Ⓑ Label, STEREO
4-840-918-00 (USA, Canada model) Ⓑ Label, STEREO/DOLBY FM
4-838-962-00 (AEP model) Ⓑ
4-840-917-00 (USA, Canada model) Ⓑ
Cover, lamp
4-836-128-00 Ⓑ Knob, MUTING
Washer, plastic
Flywheel Ass'y
E5
Pulley Ass'y
Bracket (A), pulley
BV3 x 6
Pulley Ass'y
BV3 x 6
Bracket (B), pulley
Shaft, tuning
Washer, plastic
Holder, tuning shaft
Bracket (R), dial lamp holder
BV3 x 6
1-536-392-XX Ⓑ Terminal Strip
Clamp, LED lead
BV3 x 6
Bracket (L), dial lamp holder
9-911-863-XX Ⓓ Fiber (t = 0.5)
BV3 x 6
1-518-116-00 Ⓑ Lamp, 11 V 360 mA; dial (PL1)
BV3 x 6
3-701-485-00 Ⓐ P3 x 6, w/washer
Cushion
K3 x 6
Holder, dial lamp
BV3 x 6
Support (L), dial scale
4-838-923-00 Ⓑ Absorber
4-838-918-00 Ⓑ Cushion, dial scale
FM
AM
3-701-485-00 Ⓐ P3 x 6, w/washer
4-845-122-00 Ⓓ Scale, dial
9-911-815-03 Ⓑ Cushion (t = 10)
BV3 x 6
BV3 x 6
3-701-485-00 Ⓐ P3 x 6, w/washer
Support (R), dial scale
4-838-923-00 Ⓑ Absorber
4-838-918-00 Ⓑ Cushion, dial scale
1-518-116-00 Ⓑ Lamp, 1.1 V 360 mA; dial (PL2)
K3 x 6
Holder, dial lamp
3-701-485-00 Ⓐ P3 x 6, w/washer
9-911-863-XX Ⓓ Fiber (t = 0.5)
Subchassis, front

Note:

- Items with no part number and/or no description are not stocked because they are seldom required for routine service.
- All screws are Phillips (cross recess) type unless otherwise noted.
  (–) = slotted head
  (□□T) shows the number of coils in spring.
- The circled letters (Ⓐ to Ⓩ) are applicable for the European model only.

STR-5800/5800SD

(3)


A
B
C
D
E
F
G
1
2
3
4
5
1-442-595-00 (USA model) Ⓡ
1-442-639-00 (Canada model) Ⓡ
1-442-640-00 (AEP model) Ⓢ
Transformer, power (PT1)
PSW3 x 8
PSW3 x 8
Support, transistor
Transistor, 2SD291 (Q212) Ⓓ
Heat Sink
Shield (B)
LW3, external
BV3 x 12
BV3 x 6
Complete Circuit Board, a-m/fm
Supplied with electrolytic capacitor
4-303-483-00 Ⓐ
P3 x 8, w/washer
BV 3 x 6
Shield (D)
PSW4 x 8
Complete Circuit Board, front-end
1-125-139-11 Ⓜ
Capacitor, electrolytic;
(8200μF 63 V) x 2 (C901, 902)
Connector, 9-p; male
Connector, 4-p; male
Connector, 4-p; male
Complete Circuit Board, power supply
Plate, ground
Chassis
BV3 x 6
Bracket, a-m/fm circuit board
PSW4 x 8
BV3 x 6
Frame (L)
Connector, 8-p; male
Plate, shield
Connector, 6-p; male
1-515-257-00 Ⓗ
Relay (RY801)
BV3 x 6
Complete Circuit Board, power amp
Connector, 4-p; male
Connector, 4-p; male
Connector, 4-p; male
Connector, 6-p; male
Complete Circuit Board, EQ amp
BV3 x 8
BV3 x 6
Shield (A)
1-532-286-00 (AEP model) Ⓑ
Fuse, 2.5 AT (F1, 2)
4-809-049-00 Ⓑ
Drum, tuning
BV3 x 6
1-532-325-00 (AEP model) Ⓑ
Fuse, 6.3AT (F3, 4)
1-532-053-00 (AEP model) Ⓑ
Fuse, 1.6 A (F5)
3-701-462-00 Ⓐ
⊕ 2.6 x 4, w/tooth
Bracket, fuse holder (AEP model)
4-809-050-00 Ⓐ
Spring
Bracket, front-end circuit board
PSW4 x 8
9-911-825-42 Ⓒ
Dial Cord, 0.5 mm dia.
Shield (C)
1-509-546-00 (AEP model) Ⓒ
Connector, 3-p; AC IN (CNJ1)
Supplied with power transformer H40
4-812-134-00 (AEP model) Ⓐ
Rivet, plastic; 3.5 x 5.5
Holder, fuse (AEP model)
4-822-355-11 (AEP model) Ⓑ
Cover, voltage selector
K3 x 10
BV3 x 6
N 3
Clamp, cord
1-508-690-00 (AEP model) Ⓒ
Plug, voltage selector
1-535-057-21 Ⓔ
Terminal Strip, SPEAKER (TM1 ~ 3)
1-507-470-00 Ⓒ
Jack, phono; 4-p; TAPE 2, REC OUT 2, EXT ADPT (J3 ~ 6, 13 ~ 16)
1-507-411-00 Ⓑ
Jack, phono; 1-p; FM DISCRI OUTPUT (J19)
4-803-054-00 (AEP model) Ⓐ
Screw (A), voltage selector cover
4-812-134-00 (AEP model) Ⓐ
Rivet, plastic; 3.5 x 5.5
4-803-055-00 (AEP model) Ⓐ
Screw (B), voltage selector cover
4-845-201-00 (AEP model) Ⓐ
4-845-202-00 (Canada model) Ⓐ
4-845-203-00 (USA model) Ⓐ
Label, specification
3-513-211-00 Ⓐ
(USA, Canada model)
Label, DOLBY FM
1-401-635-21 Ⓖ
AM Ferrite-rod Ant (L1)
BV3.5 x 12
BV3 x 6
BV3 x 6
4-812-134-00 Ⓐ
Rivet, plastic; 3.5 x 5.5
4-812-134-00 Ⓐ
Rivet, plastic; 3.5 x 5.5
Clamp, feeder
Connector, male;
U-shaped (AEP model)
Complete Circuit Board, REC/PB connector (AEP model)
1-507-470-00 Ⓒ
Jack, phono; 4-p; PHONO, AUX (J1, 2, 11, 12)
BV3 x 6
PSW3 x 6
Lug, 3 mm dia.
Panel, rear
1-507-470-00 (USA, Canada model) Ⓒ
1-507-471-00 (AEP model) Ⓒ
Jack, phono; 4-p; TAPE 1 REC OUT 1 (J7 ~ 10)
1-536-469-00 Ⓓ
Terminal Strip, ANTENNA (TM5)
1-535-132-00 Ⓑ
Terminal, ground (TM4)
Frame (R)
USA, Canada model
Panel, rear
4-812-134-00 Ⓐ
Rivet, plastic; 3.5 x 5.5
1-526-528-00 Ⓑ
Outlet, ac (CNJ1 ~ 3)
1-534-986-XX Ⓕ
Cord, power
Complete Circuit Board, fuse
3-410-032-00 Ⓐ
Strain Relief, power cord
1-532-272-XX Ⓑ
Fuse, 5 A (F1)
4-812-134-00 Ⓐ
Rivet, plastic; 3.5 x 5.5
Bracket, fuse holder
Holder, fuse
1-532-267-XX Ⓑ
Fuse, 1.6 A (F2)
4-809-246-00 Ⓐ
Label, AC 120 V 60 Hz

Note:

- o Items with no part number and/or no description are not stocked because they are seldom required for routine service.
- o All screws are Phillips (cross recess) type unless otherwise noted.
  (–) = slotted head
  (□□T) shows the number of coils in spring.
- o The circled letters (Ⓐ to Ⓩ) are applicable for the European model only.

SECTION 7

ELECTRICAL PARTS LIST

Note: The circled letters (Ⓐ to Ⓩ) are applicable for the European model only.

SEMICONDUCTORS

Transistors

Ref. No.	Part No.	Description
Q101		Ⓔ 3SK37
Q102		Ⓒ 2SK23A
Q103, 104		Ⓑ 2SC710
Q105		Ⓒ 2SK23A
Q106		Ⓑ 2SC710
Q201 ~ 203		Ⓑ 2SC710
Q204, 205		Ⓑ 2SC945
⇒Q206		Ⓑ 2SC632A
Q207		Ⓑ 2SC945
⇒Q208		Ⓒ 2SA678
Q209		Ⓑ 2SC945
⇒Q210, 211		Ⓑ 2SC632A
Q212		Ⓓ 2SD291
Q213 ~ 215		Ⓑ 2SC945
⇒Q301, 351		Ⓑ 2SC632A
Q401 ~ 404		Ⓑ 2SC403C
Q405, 406		Ⓑ 2SC710
Q501, 551		Ⓑ 2SC1636
Q502, 552 Q503, 553		Ⓑ 2SA705
Q601, 651		Ⓑ 2SC1636
Q602, 652		Ⓑ 2SA705
Q603, 653		Ⓑ 2SC632A
Q604		Ⓒ 2SA678
Q701, 751		Ⓓ 2SA884
Q702, 752		Ⓑ 2SA705
Q703, 753		Ⓒ 2SA896
Q704, 754		Ⓒ 2SC1811
⇒Q705, 755		Ⓒ 2SA678
⇒Q706, 756 Q707, 757		Ⓑ 2SC634A
⇒Q708, 758		Ⓒ 2SA678
⇒Q801 ~ 803		Ⓒ 2SA678
⇒Q804		Ⓑ 2SC634A

⇒: Due to replacement parts, the discriptions are different from the diagrams.

Ref. No.	Part No.	Description
Q805		Ⓒ 2SC1670
Q931		Ⓔ 2SC1124
Q932		Ⓓ 2SA706
Q933		Ⓒ 2SA678

ICs

Ref. No.	Part No.	Description
IC201		Ⓗ HA1137W
IC202		Ⓙ HA1156
IC301, 351		Ⓘ CX064
IC701, 702		Ⓞ SS120A
D1-1, 1-2		Ⓗ TX312
D101		Ⓑ 1S2687
D201		Ⓑ 1T22A
⇒D202 ~ 204		Ⓑ 1S1555
D205		Ⓑ MV203V
D206		Ⓑ EQA01-16R
D207, 208		Ⓑ 10E2
⇒D401, 402		Ⓑ 1S1555
D403, 404		Ⓑ 1T22A
D601		Ⓑ 1S1555
D701		Ⓑ VD1221
D702 ~ 705 D752 ~ 755		Ⓑ 1S1555
D801 ~ 803		Ⓑ 1S1555
D804		Ⓑ 1T243M
D805, 806		Ⓑ 1S1555
D901		Ⓕ S5151
D902		Ⓕ S5151R
D911, 912		Ⓑ 10E2
D913, 914		Ⓑ 10D2
⇒ D931, 932		Ⓑ EQB01-21

THERMISTOR

Ref. No.	Part No.	Description
Pth801, 851	1-800-427-21	Ⓑ Positive

COILS

Ref. No.	Part No.	Description
L1	1-401-635-21	Ⓖ AM Ferrite-rod Antenna
L101	1-401-662-00	Ⓑ FM Ant
L102	1-425-925-00	Ⓑ FM RF
L103	1-425-926-00	Ⓑ FM RF
L104	1-407-172-XX	Ⓐ Microinductor, 180 μH
L201	1-459-152-00	Ⓑ 18 μH
L202	1-407-160-XX	Ⓐ Microinductor, 18 μH
L203	1-407-172-XX	Ⓐ Microinductor, 180 μH
L401	1-407-169-XX	Ⓐ Microinductor, 100 μH
L402	1-405-656-00	Ⓑ AM Osc
L403	1-407-182-XX	Ⓐ Microinductor, 2.2 μH
L404	1-407-178-XX	Ⓐ Microinductor, 1 μH
L405	1-407-182-XX	Ⓐ Microinductor, 2.2 μH
L701, 751	1-420-838-00	Ⓐ 1.2 μH

TRANSFORMERS

Ref. No.	Part No.	Description
B1	1-417-014-31	Ⓑ Balun
IFT101	1-403-295-12	Ⓑ FM IFT
IFT201	1-404-029-00	Ⓒ FM Discriminator
IFT401	1-404-014-11 1-404-014-21	Ⓓ AM IFT (USA, Canada models) Ⓓ AM IFT (AEP model)
IFT402	1-403-149-00	Ⓑ AM IFT
PT1	1-442-595-00 1-442-639-00 1-442-640-00	Ⓡ Power (USA model) Ⓡ Power (Canada model) Ⓢ Power (AEP model)

FILTERS

Ref. No.	Part No.	Description
CF201, 202	1-527-248-XX	Ⓗ Ceramic
LPF201	1-231-219-00	Ⓓ Low-pass

CAPACITORS

All capacitors are in μF and of electrolytic unless otherwise noted. 50 and/or less working voltages are not indicated except for electrolytic type. (p = μμF)

Note: The circled letters (Ⓐ to Ⓩ) are applicable for the European model only.

Ref. No.	Part No.	Description		
C101	1-101-981-11	Ⓐ 20 p		ceramic
C102	1-102-257-11	Ⓐ 0.0022		ceramic
C103	1-101-924-11	Ⓐ 0.022		ceramic
C104	1-101-981-11	Ⓐ 20 p		ceramic
C105	1-101-924-11	Ⓐ 0.022		ceramic
C106	1-102-864-11	Ⓐ 5 p		ceramic
C107	1-101-924-11	Ⓐ 0.022		ceramic
C108	1-102-642-11	Ⓐ 24 p		ceramic
C109	1-101-924-11	Ⓐ 0.022		ceramic
C110	1-101-919-11	Ⓐ 0.0022		ceramic
C111	1-101-924-11	Ⓐ 0.022		ceramic
C112	1-102-848-11	Ⓐ 180 p		ceramic
C113	1-101-924-11	Ⓐ 0.022		ceramic
C114	1-101-919-11	Ⓐ 0.0022		ceramic
C116, 117	1-101-924-11	Ⓐ 0.022		ceramic
C118	1-102-502-11	Ⓐ 2 p		ceramic
C119		Ⓐ		
C120, 121	1-101-924-11	Ⓐ 0.022		ceramic
C122	1-102-503-11	Ⓐ 3 p		ceramic
C123	1-101-924-11	Ⓐ 0.022		ceramic
C201	1-121-415-11	Ⓑ 100	16 V	
C202 ~ 204	1-101-924-11	Ⓐ 0.022		ceramic
C205	1-101-974-11	Ⓐ 20 p		ceramic
C206	1-101-924-11	Ⓐ 0.022		ceramic
C208	1-108-251-12	Ⓑ 0.1		mylar
C209	1-101-925-11	Ⓐ 0.047		ceramic
C210	1-121-450-11	Ⓐ 2.2	50 V	
C211	1-101-924-11	Ⓐ 0.022		ceramic
C212	1-121-726-11	Ⓐ 0.47	50 V	
C213	1-101-925-11	Ⓐ 0.047		ceramic
C214	1-121-726-11	Ⓐ 0.47	50 V	
C215	1-101-884-11	Ⓐ 56 p		ceramic
C216	1-121-726-11	Ⓐ 0.47	50 V	
C217	1-101-924-11	Ⓐ 0.022		ceramic
C218	1-121-415-11	Ⓑ 100	16 V	
C219	1-101-925-11	Ⓐ 0.047		ceramic
C220	1-121-651-11	Ⓐ 10	16 V	
C221	1-121-726-11	Ⓐ 0.47	50 V	
C222	1-121-651-11	Ⓐ 10	16 V	

Note: The circled letters (Ⓐ to Ⓩ) are applicable for the European model only.

Ref. No.	Part No.	Description		
C223	1-101-924-11	Ⓐ 0.022		ceramic
C224, 225	1-121-651-11	Ⓐ 10	16 V	
C226	1-131-209-11	Ⓑ 0.1	35 V	tantalum
C227	1-121-391-11	Ⓐ 1	50 V	
C228	1-123-068-11	Ⓑ 220	16 V	
C229	1-121-391-11	Ⓐ 1	50 V	
C230	1-121-651-11	Ⓐ 10	16 V	
C231, 232	1-121-395-11	Ⓐ 4.7	25 V	
C233	1-103-717-11	Ⓐ 470 p		polystyrol
C234	1-121-726-11	Ⓐ 0.47	50 V	
C235	1-108-246-12	Ⓐ 0.047		mylar
C236	1-123-068-11	Ⓑ 220	16 V	
C237	1-131-209-11	Ⓑ 0.1	35 V	tantalum
C238, 239	1-108-569-12	Ⓑ 0.0039		mylar
C240	1-121-726-11	Ⓐ 0.47	50 V	
C241, 242	1-108-571-12	Ⓐ 0.0047		mylar
C243, 244	1-108-567-12	Ⓐ 0.0033		mylar
C245	1-121-415-11	Ⓑ 100	16 V	
C246, 247	1-131-212-11	Ⓑ 0.33	35 V	tantalum
C248, 249	1-101-884-11	Ⓐ 56 p		ceramic
C250, 251	1-121-651-11	Ⓐ 10	16 V	
C252	1-123-068-11	Ⓑ 220	16 V	
C253	1-121-935-11	Ⓑ 100	25 V	
C254	1-121-939-11	Ⓑ 470	16 V	
C255	1-108-228-12	Ⓐ 0.0015		mylar
C256, 257	1-102-732-11	Ⓐ 75 p		ceramic
	USA, Canada models			
C301, 351	1-121-912-11	Ⓐ 1	50 V	
C302, 352	1-121-651-11	Ⓐ 10	16 V	
C303, 353	1-102-947-11	Ⓐ 10 p		ceramic
C305, 355	1-131-198-11	Ⓑ 6.8	16 V	tantalum
C307, 357	1-121-352-11	Ⓐ 47	10 V	
C308, 358	1-121-912-11	Ⓐ 1	50 V	
C309, 359	1-108-244-12	Ⓐ 0.033		mylar
C310, 360	1-108-603-12	Ⓑ 0.1		mylar
C311, 361	1-131-217-11	Ⓑ 2.2	35 V	tantalum
C312, 362	1-108-585-12	Ⓑ 0.018		mylar
C313, 363	1-108-587-12	Ⓐ 0.022		mylar

Ref. No.	Part No.	Description		
	USA, Canada models			
C314, 364	1-121-912-11	Ⓐ 1	50 V	
C315, 365	1-121-395-11	Ⓐ 4.7	25 V	
C316, 366	1-108-230-12	Ⓐ 0.0022		mylar
C317, 318	1-121-415-11	Ⓑ 100	16 V	
C401 ~ 403	1-101-924-11	Ⓐ 0.022		ceramic
C405, 406	1-101-924-11	Ⓐ 0.022		ceramic
C407	1-121-479-11	Ⓐ 22	16 V	
C408	1-101-924-11	Ⓐ 0.022		ceramic
C409	1-121-450-11	Ⓐ 2.2	50 V	
C410	1-101-924-11	Ⓐ 0.022		ceramic
C411	1-121-450-11	Ⓐ 2.2	50 V	
C412, 413	1-101-924-11	Ⓐ 0.022		ceramic
C414	1-121-352-11	Ⓐ 47	10 V	
C415	1-101-924-11	Ⓐ 0.022		ceramic
C416	1-121-415-11	Ⓑ 100	16 V	
C417	1-108-227-12	Ⓐ 0.001		mylar
C418	1-108-355-12	Ⓐ 0.0056		mylar
C419	1-108-239-12	Ⓐ 0.01		mylar
C420	1-108-249-12	Ⓐ 0.068		mylar
C421	1-121-413-11	Ⓐ 100	6.3 V	
C422	1-102-953-11	Ⓐ 18 p		ceramic
C423	1-103-714-11	Ⓐ 360 p		polystyrol
C424	1-101-924-11	Ⓐ 0.022		ceramic
C425	1-108-239-12	Ⓐ 0.01		mylar
C426	1-101-924-11	Ⓐ 0.022		ceramic
C427	1-121-409-11	Ⓐ 47	16 V	
C501, 551	1-131-236-11	Ⓑ 1	25 V	tantalum
C502, 552	1-102-959-11	Ⓐ 22 p		ceramic
C503, 553	1-102-114-11	Ⓐ 470 p		ceramic
C504, 554	1-108-574-12	Ⓐ 0.0062		mylar
C505, 555	1-108-561-12	Ⓑ 0.0018		mylar
C506, 556	1-121-398-11	Ⓐ 10	25 V	
C507, 557	1-121-751-11	Ⓑ 330	6.3 V	
C508, 558	1-121-912-11	Ⓐ 1	50 V	
C601, 651	1-102-976-11	Ⓐ 180 p		ceramic
C602, 652	1-108-230-12	Ⓐ 0.0022		mylar
C603, 653	1-108-244-12	Ⓐ 0.033		mylar
C604, 654	1-108-246-12	Ⓐ 0.047		mylar

Note: The circled letters (Ⓐ to Ⓩ) are applicable for the European model only.

Ref. No.	Part No.	Description		
C605, 655	1-108-227-12	Ⓐ 0.001		mylar
C606, 656	1-121-912-11	Ⓐ 1	50 V	
C607, 657	1-121-413-11	Ⓐ 100	6.3 V	
C608, 658	1-102-114-11	Ⓐ 470 p		ceramic
C609, 659	1-102-959-11	Ⓐ 22 p		ceramic
C610, 660	1-121-748-11	Ⓐ 10	25 V	
C611, 661	1-108-228-12	Ⓐ 0.0015		mylar
C612, 662	1-121-913-11	Ⓐ 3.3	25 V	
C613, 663 C614, 664	1-108-246-12	Ⓐ 0.047		mylar
C615, 665	1-121-748-11	Ⓐ 10	25 V	
C616, 666	1-102-963-11	Ⓐ 33 p		ceramic
C617, 667	1-121-915-11	Ⓐ 4.7	25 V	
C618, 668	1-108-585-12	Ⓐ 0.018		mylar
		(USA, Canada models)		
C619, 669	1-121-413-11	Ⓐ 100	6.3 V	
C620, 670	1-108-603-12	Ⓑ 0.1		mylar
C641	1-121-651-11	Ⓐ 10	16 V	
		(USA, Canada models)		
C641	1-121-651-11	Ⓐ 10	16 V	
C701, 751	1-102-116-11	Ⓐ 680 p		ceramic
C702, 752	1-121-912-11	Ⓐ 1	50 V	
C703, 753	1-123-077-11	Ⓑ 470	6.3 V	
C704, 754	1-102-973-11	Ⓐ 100 p		ceramic
C705, 755	1-102-945-11	Ⓐ 8 p		ceramic
C706, 756	1-121-414-11	Ⓐ 100	10 V	
C707, 757	1-123-072-11	Ⓑ 220	10 V	
C708, 758 C709, 759	1-121-479-11	Ⓐ 22	16 V	
C710, 760	1-108-244-12	Ⓐ 0.033		mylar
C761	1-121-414-11	Ⓐ 100	10 V	
C801	1-123-073-11	Ⓑ 330	10 V	
C802	1-121-479-11	Ⓐ 22	16 V	
C803	1-123-072-11	Ⓑ 220	10 V	
C804	1-101-004-11	Ⓐ 0.01		ceramic
C901, 902	1-125-139-11	Ⓜ 8,200	63 V	
C911, 912	1-121-937-11	Ⓑ 220	50 V	
C913, 914	1-108-389-12	Ⓑ 0.1	100 V	mylar
C915, 916	1-121-937-11	Ⓑ 220	50 V	

Ref. No.	Part No.	Description		
C917	1-123-059-11	Ⓑ 100	50 V	
C921, 922	1-121-936-11	Ⓑ 220	25 V	
C931, 932	1-123-065-11	Ⓑ 330	25 V	
C933, 934	1-121-935-11	Ⓑ 100	25 V	
C935, 936	1-102-129-11	Ⓐ 0.01		ceramic
C937, 938	1-123-062-11	Ⓑ 100	35 V	
C951 ~ 954	1-106-505-12	Ⓑ 0.1	200 V	mylar
CT401, 402	1-141-147-XX	[illegible] trimmer		

RESISTORS

All resistors are in ohms. Regular-type ¼ W carbon resistors are omitted.

Check the schematic diagram for the resistance values.

(k = 1000, M = 1000 k)

R203	1-211-498-11	Ⓐ 10		¼W carbon (nonflammable)
R216	1-211-524-11	Ⓐ 120		¼W carbon (nonflammable)
R263	1-211-522-11	Ⓐ 100		¼W carbon (nonflammable)
R269	1-202-552-11	Ⓐ 130		½W composition
R271	1-217-379-11	Ⓑ 2.2		¼W fusible (nonflammable)
R272	1-211-522-11	Ⓐ 100		¼W carbon (nonflammable)
		USA, Canada models		
R316, 366	1-210-871-11	Ⓐ 5.6 k	±2%	¼W carbon
R320, 370	1-210-873-11	Ⓐ 430	±2%	¼W carbon
R321, 371	1-210-851-11	Ⓐ 910	±2%	¼W carbon
R324, 374	1-211-529-11	Ⓐ 200		¼W carbon (nonflammable)
R416, 420	1-211-522-11	Ⓐ 100		¼W carbon (nonflammable)
R712, 762 R713, 763	1-211-538-11	Ⓐ 470		¼W carbon (nonflammable)
R706, 756	1-211-514-11	Ⓐ 47		¼W carbon (nonflammable)
R715, 765	1-202-525-11	Ⓐ 10		½W composition
R716, 766	1-202-517-11	Ⓐ 4.7		½W composition

Note: The circled letters (Ⓐ to Ⓩ) are applicable for the European model only.

Ref. No.	*Part No.*	*Description*
R718, 768	1-206-656-11	Ⓐ470 2W metal-oxide (nonflammable)
R719, 769	1-202-565-11	Ⓐ470 ½W composition
R767	1-202-597-11	Ⓐ10k ½W composition
R805	1-211-518-11	Ⓐ68 ¼W carbon (nonflammable)
R808	1-202-595-11	Ⓐ8.2k ½W composition
R812	1-206-659-11	Ⓐ620 2W metal-oxide (nonflammable)
R813	1-211-539-11	Ⓐ470 ¼W carbon (nonflammable)
R911, 912	1-212-994-11	Ⓐ330 ½W carbon (nonflammable)
R913	1-213-125-11	Ⓐ33 1W metal-oxide (nonflammable)
R914	1-207-665-11	Ⓑ100 3W wirewound (nonflammable)
R915, 916	1-211-518-11	Ⓐ68 ¼W carbon (nonflammable)
R921, 922	1-211-530-11	Ⓐ220 ¼W carbon (nonflammable)
R931, 932	1-211-515-11	Ⓐ51 ¼W carbon (nonflammable)
R939	1-202-541-11	Ⓐ47 ½W composition
R940	1-202-553-11	Ⓐ150 ½W composition (USA, Canada models)
R1001	1-202-719-11	Ⓐ1M ½W composition (USA, Canada models)
RT201	1-224-648-XX	Ⓑ100k adjustable
RT202～204	1-224-647-XX	Ⓑ47k adjustable
RT205	1-224-645-XX	Ⓑ10k adjustable
RV601, 651	1-224-807-00	Ⓔ250k variable, VOLUME
RV602, 652	1-224-810-00	Ⓓ10k variable, BALANCE
RV603, 653 RV604, 654	1-224-808-00	Ⓔ50k variable, TONE (TREBLE, BASS)

SWITCHES

Ref. No.	*Part No.*	*Description*
S1	1-516-948-00	Ⓖ Rotary, FUNCTION
S2, 3	1-516-603-00	Ⓕ Lever Slide, MONITOR, TAPE COPY
S4, 6 S14～16	1-516-949-00	Ⓖ Pushbutton, 5-key; MONO, EXT ADPT, DOLBY FM, MULTIPATH, FM MUTING (USA, Canada models)
S4, 6, 15, 16	1-516-947-00	Ⓕ Pushbutton, 5-key; MONO, EXT ADPT, MULTIPATH, FM MUTING (AEP model)
S5	1-516-685-00	Ⓕ Lever Slide, MUTING
S7	1-516-952-00	Ⓕ Rotary Slide, ACOUSTIC COMP
S8, 9	1-516-946-00	Ⓔ Pushbutton, 2-key; FILTER
S10	1-516-951-00	Ⓕ Rotary, SPEAKER
S11	1-516-628-00 1-516-693-00	Ⓔ Pushbutton, POWER (AEP model) Ⓔ Pushbutton, POWER (USA, Canada models)
S17	1-516-954-00	Ⓑ De-emphasis

FUSES

Ref. No.	*Part No.*	*Description*
F1	1-532-272-XX	Ⓑ 5 A (USA, Canada models)
F2	1-532-267-XX	Ⓑ 1.6 A (USA, Canada models)
F1, 2	1-532-286-00	Ⓑ 2.5 AT (AEP model)
F3, 4	1-532-325-00	Ⓑ 6.3 AT (AEP model)
F5	1-532-053-00	Ⓑ 1.6 A (AEP model)

JACKS

Ref. No.	*Part No.*	*Description*
CNJ1～3	1-526-528-00	Ⓑ Outlet, ac (USA, Canada models)
CNJ1	1-509-546-00	Ⓒ Connector, 3-p; AC IN (AEP model)
CNJ4	1-507-454-00	Ⓒ HEADPHONES
CNJ5	1-509-549-00	Ⓑ Connector, REC/PB (AEP model)
CNJ6	1-507-453-00	Ⓒ AUX
J1～6 J11～16	1-507-470-00	Ⓒ Phono, 4-p; PHONO, AUX, TAPE 2 REC OUT2, EXT ADPT
J7～10	1-507-471-00 1-507-470-00	Ⓒ Phono, 4-p; TAPE 1, REC OUT1 (AEP model) Ⓒ Phono, 4-p; TAPE 1, REC OUT1 (USA, Canada models)
J19	1-507-411-00	Ⓑ Phono, 1-p; FM DISCRI OUTPUT

MISCELLANEOUS

Ref. No.	*Part No.*	*Description*
CP903	1-231-057-31	Ⓑ Encapsulated Component (USA, Canada models)
ME1	1-520-237-00	Ⓗ Meter, SIGNAL MULTIPATH
ME2	1-520-236-00	Ⓗ Meter, FM TUNING
PL1～3	1-518-116-00	Ⓑ Lamp, 11 V 360 mA; dial, meter
PL4	1-518-169-XX	Ⓑ Lamp, 4.5 V 40 mA; STEREO

Note: The circled letters (Ⓐ to Ⓩ) are applicable for the European model only.

Ref. No.	Part No.	Description
PL5	1-518-169-XX	Ⓑ Lamp, 4.5 V 40 mA; DOLBY FM (USA, Canada models)
RY801	1-515-257-00	Ⓗ Relay
TM1 ~ 3	1-535-057-21	Ⓔ Terminal Strip, SPEAKER
TM4	1-535-132-00	Ⓑ Terminal, ground
TM5	1-536-469-00	Ⓓ Terminal Strip, ANTENNA
	1-508-690-00	Ⓒ Plug, voltage selector (AEP model)
	1-536-392-XX	Ⓑ Terminal Strip
	1-534-986-XX	Ⓕ Cord, power (USA, Canada models)

ACCESSORIES AND PACKING MATERIALS

Part No.	Description
X-4490-002-1	Ⓑ Cloth Ass'y, polishing
1-501-161-00	Ⓓ Ribbon Antenna, fm
1-506-113-00	Ⓐ Plug, shorting
3-701-020-00	Ⓐ Bag, plastic; instruction manual
3-701-356-01	Ⓐ Label, tack (Canada model)
3-701-360-02	Ⓐ Label, tack (AEP model)
3-701-657-01	Ⓐ Label, tack (USA model)
3-780-940-11	Ⓗ Manual, instruction (AEP model)
3-780-940-21	Ⓗ Manual, instruction (USA, Canada models)
3-793-990-31	Ⓐ Manual, instruction; French edition (Canada model)
4-828-909-00	Ⓑ Bag, plastic; unit
4-845-131-00	Ⓒ Cushion
4-845-207-00	Ⓗ Carton (USA, Canada models)
4-845-208-00	Ⓗ Carton (AEP model)

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